

## 6. SENSITIVITIES/SIGNIFICANCE

### 6.1. Fisheries and Aquatic Ecosystems

Seven fish species are considered to be at risk in Ontario that are found in the PAA. Two of these species were collected from single sampling stations in the Canard River: spotted sucker (*Minytrema melanops*) and orangespotted sunfish (*Lepomis humilis*). Both species have a provincial rank of S2 (very rare in Ontario) and COSEWIC and OMNR ranks of Special Concern (species vulnerable to becoming threatened or endangered). The spotted sucker is known only from ten occurrence records from the western basin of Lake Erie and Lake St. Clair and its tributaries. Its general status in Ontario is “sensitive” and it is currently being tracked by the NHIC, which means that it has fewer than 100 occurrences provincially and is considered rare. The orangespotted sunfish has a provincial rank of SE, which means that it is considered exotic, but is ranked Special Concern by COSEWIC and OMNR. Its general provincial status is “exotic” and it is not tracked by the NHIC. The NHIC considers this species to be adventive in southwestern Ontario (NHIC 2004).

An additional five species of fish historically reported from the Detroit River are considered to be at risk in Ontario. Spotted gar (*Lepisosteus oculatus*) has a provincial rank of S2 and is considered to be Threatened (at risk of becoming endangered) by both COSEWIC and the OMNR. Its general provincial status is “at risk”, likely due to its restricted range within Ontario, and it is tracked by the NHIC. Two cyprinid species reported from the Detroit River are also considered to be at risk: silver chub (*Macrhybopsis storeriana*) and pugnose minnow (*Opsopoeodus emiliae*). Both have provincial ranks of S2 and are considered Special Concern by COSEWIC and the OMNR. Both are currently tracked by the NHIC and have a general provincial status of “sensitive”. The last two species of concern are both in the sucker family: bigmouth buffalo (*Ictiobus cyprinellus*) and river redhorse (*Moxostoma carinatum*). The bigmouth buffalo has a provincial rank of SU, meaning that it is unrankable at this time as more data is needed. The provincial rank of river redhorse is S2. Both of these species are considered Special Concern by COSEWIC and the OMNR. The general provincial status of the bigmouth buffalo is “undetermined” and the river redhorse general provincial status is “sensitive”. Both species are tracked by the NHIC. A summary of regulated fish species is presented in Table 8.

### 6.2. Vegetation and Vegetation Communities

Tallgrass prairie and oak savannah communities are significant at the provincial level. Many other vegetation assemblages in the County of Essex are unusual and are thus significant, both at the provincial and regional level. Many of these vegetation communities are significant in that they are all that remain of community types that dominated this location prior to European settlement. Other vegetation communities are significant as a result of the unique species assemblages that they contain.

**TABLE 8. REGULATED FISH SPECIES IN THE PAA**

Common Name	Scientific Name	Federal Regulations						Provincial Regulations			
		COSEWIC			SARA			COSSARO			PPS
		END	THR	SC	1	2	3	END	THR	SC	
spotted gar	<i>Lepisosteus oculatus</i>		X		X				X		X
silver chub	<i>Macrhybopsis storeriana</i>			X	X					X	
pugnose minnow	<i>Opsopoeodus emiliae</i>			X	X					X	
bigmouth buffalo	<i>Ictiobus cyprinellus</i>			X			X			X	
spotted sucker	<i>Minytrema melanops</i>			X	X					X	
river redhorse	<i>Moxostoma carinatum</i>			X			X			X	
orangespotted sunfish	<i>Lepomis humilis</i>			X			X			X	

**TABLE 8 LEGEND****COSEWIC (Committee on the Status of Endangered Wildlife in Canada):**

END Endangered  
 THR Threatened  
 SC Special Concern

**Provincial:****OMNR (Ontario Ministry of Natural Resources):**

END Endangered  
 THR Threatened  
 SC Special Concern

**Legal Status:**

SARA *Species at Risk Act* – Schedules (1), (2), (3)  
 PPS Species afforded habitat protection under the Provincial Policy Statement of the *Planning Act*

A number of vascular plant species documented to inhabit the PAA are significant federally and provincially. Of the 615 species, four are 'Endangered', six are 'Threatened' and three are 'Special Concern' according to both COSEWIC and COSSARO. One species is regulated under the *Endangered Species Act*. A total of 13 species are regulated under the *Species At Risk Act*, including ten on Schedule 1, one on Schedule 2 and two on Schedule 3. Ten species are afforded habitat protection under the Provincial Policy Statement (PPS) of the *Planning Act*. In addition, within the County of Essex 103 species are considered 'Rare', 47 species are considered 'Very Uncommon' and 62 species are considered 'Uncommon' according to Oldham (1999). A summary of regulated vascular plant species and species with status is presented in Table 9.

### 6.3. Wildlife and Wildlife Habitat

Most of the information obtained on the recorded wildlife within the PAA came from the Ojibway Prairie Complex and the Town of LaSalle. The Ojibway Prairie Complex of about 360 hectares contains five natural heritage parks and reserves consisting of the Black Oak Heritage Park, Ojibway Park, Tallgrass Prairie Heritage Park, Ojibway Prairie Provincial Natural Reserve and Spring Garden Natural Area, collectively making up the Ojibway Prairie Remnants ANSI. The Town of LaSalle contains natural areas such as the LaSalle Woodlot and the LaSalle Conservations Lands. These areas are of great concern within the PAA due to their high sensitivity, based on the recorded presence of numerous wildlife species protected under federal and provincial legislation. Of all the recorded wildlife species within the PAA, ten species are protected under COSEWIC legislation. Seven of these species are Threatened, including six herpetofauna and one mammal. The remaining three species are herpetofauna of Special Concern.

Under the OMNR designations, one species, the Bald Eagle (*Haliaeetus leucocephalus*), is considered Endangered, seven herpetofauna species and one mammal species are Threatened, and three herpetofauna species are of Special Concern. The *Fish and Wildlife Conservation Act* (FWCA) protects forty-five species of wildlife recorded in the PAA. Fourteen of these species are herpetofauna, ten are birds and twenty-one are mammals. The majority of the birds recorded to breed in the PAA are protected by the *Migratory Birds Convention Act* (MBCA) with eighty-eight species covered under this legislation. A summary of the regulated wildlife species and species with status is presented in Table 10.

### 6.4. Designated Natural Areas

Designated natural areas within the PAA include one provincial nature reserve, three PSWs, three ANSIs, at least 17 ESAs and a total of 65 CNHSs. Of these designated natural areas, only one is also regulated. The Ojibway Prairie Provincial Nature Reserve is regulated under the *Provincial Parks Act*. The remaining designated areas are significant in that they provide habitat for a number of regulated species and species with status. In addition, some of these designated natural areas have been incorporated into municipal policy documents such as official plans (see Section 4.5). A summary of these natural areas and is presented in Table 11.

TABLE 9. REGULATED VASCULAR PLANT SPECIES AND SPECIES WITH LOCAL STATUS IN THE PAA

Scientific Name	Common Name	Federal Regulations						Provincial Regulations				Local Status				
		COSEWIC			SARA Schedule			COSSARO			ESA	PPS	U	VU	R	
		END	THR	SC	1	2	3	END	THR	SC						
<i>Equisetum laevigatum</i>	smooth scouring-rush														X	
<i>Osmunda cinnamomea</i>	cinnamon fern														X	
<i>Osmunda claytoniana</i>	interrupted fern														X	
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern														X	
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	eastern bracken-fern														X	
<i>Pinus strobus</i>	eastern white pine															X
<i>Liriodendron tulipifera</i>	tulip tree														X	
<i>Asimina triloba</i>	pawpaw														X	
<i>Nuphar advena</i>	large yellow pond-lily														X	
<i>Actaea rubra</i>	red baneberry														X	
<i>Anemone cylindrica</i>	thimbleweed														X	
<i>Clematis virginiana</i>	virgin's-bower														X	
<i>Ranunculus fascicularis</i>	early buttercup														X	
<i>Thalictrum revolutum</i>	waxy meadow-rue															X
<i>Celtis tenuifolia</i>	dwarf hackberry		X					X		X			X			X
<i>Ulmus thomasi</i>	rock elm														X	
<i>Morus rubra</i>	red mulberry	X			X			X					X		X	
<i>Parietaria pensylvanica</i>	Pennsylvania pellitory														X	
<i>Carya glabra</i>	pignut hickory														X	
<i>Comptonia peregrina</i>	sweetfern															X
<i>Castanea dentata</i>	American chestnut		X			X			X				X	X		
<i>Quercus muhlenbergii</i>	chinquapin oak													X		
<i>Quercus shumardii</i>	shumard oak			X			X			X				X		
<i>Quercus X schuettei</i>	Schuett's oak															X
<i>Betula alleghaniensis</i>	yellow birch														X	
<i>Atriplex patula</i>	spreading atriplex													X		
<i>Chenopodium simplex</i>	maple-leaved goosefoot													X		



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		END	THR	SC	1	2	3	END	THR	SC						
<i>Silene antirrhina</i>	sleepy catchfly														X	
<i>Polygonum tenue</i> var. <i>tenue</i>	slender knotweed															X
<i>Hypericum gentianoides</i>	orange-grass															X
<i>Hypericum majus</i>	larger Canadian St. John's-wort														X	
<i>Hypericum prolificum</i>	shrubby St. John's-wort															X
<i>Helianthemum bicknellii</i>	Bicknell's frostweed															X
<i>Helianthemum canadense</i>	long-branched frostweed															X
<i>Lechea villosa</i>	hairy pinweed															X
<i>Viola cucullata</i>	marsh blue violet														X	
<i>Viola sagittata</i> var. <i>ovata</i>	arrow-leaved violet															X
<i>Populus balsamifera</i> ssp. <i>balsamifera</i>	balsam poplar															X
<i>Populus grandidentata</i>	large-tooth aspen													X		
<i>Salix bebbiana</i>	long-beaked willow														X	
<i>Salix humilis</i>	prairie willow															X
<i>Salix lucida</i>	shining willow															X
<i>Salix nigra</i>	black willow														X	
<i>Salix petiolaris</i>	slender willow															X
<i>Arctostaphylos uva-ursi</i>	common bearberry															X
<i>Gaylussacia baccata</i>	black huckleberry														X	
<i>Vaccinium angustifolium</i>	low sweet blueberry															X
<i>Vaccinium corymbosum</i>	highbush blueberry															X
<i>Lysimachia quadriflora</i>	four-flowered loosestrife															X
<i>Lysimachia terrestris</i>	swamp loosestrife															X
<i>Lysimachia thysiflora</i>	tufted loosestrife															X
<i>Amelanchier alnifolia</i>	Saskatoon berry															X
<i>Amelanchier arborea</i>	downy juneberry													X		
<i>Amelanchier laevis</i>	smooth juneberry														X	

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		END	THR	SC	1	2	3	END	THR	SC						
<i>Amelanchier spicata</i>	low juneberry															X
<i>Aronia melanocarpa</i>	black chokeberry														X	
<i>Crataegus calpodendron</i>	urn-fruited hawthorn															X
<i>Crataegus chrysocarpa</i>	round-leaved hawthorn															X
<i>Crataegus dilatata</i>	Eggert's thorn															X
<i>Crataegus dissona</i>	hawthorn															X
<i>Crataegus holmesiana</i>	Holmes hawthorn															X
<i>Crataegus macrosperma</i>	variable thorn															X
<i>Crataegus pedicellata</i>	scarlet hawthorn															X
<i>Crataegus persimilis</i>	bush's thorn															X
<i>Crataegus pringlei</i>	Pringle's hawthorn															X
<i>Crataegus pruinosa</i>	waxy-fruited thorn													X		
<i>Crataegus succulenta</i>	long-spined thorn															X
<i>Geum aleppicum</i>	yellow avens															X
<i>Physocarpus opulifolius</i>	ninebark															X
<i>Prunus americana</i>	American plum														X	
<i>Prunus nigra</i>	Canada plum													X		
<i>Prunus pensylvanica</i>	pin cherry															X
<i>Prunus pumila var. pumila</i>	sand cherry															X
<i>Rosa setigera</i>	prairie rose			X	X					X						
<i>Rubus canadensis</i>	smooth blackberry															X
<i>Rubus pensilvanicus</i>	Pennsylvania raspberry														X	
<i>Rubus pubescens</i>	dwarf raspberry														X	
<i>Spiraea tomentosa</i>	tomentose meadow-sweet															X
<i>Amorpha fruticosa</i>	shrubby false-indigo															X
<i>Baptisia tinctoria</i>	wild indigo															X
<i>Gymnocladus dioica</i>	Kentucky coffee-tree		X		X				X			X		X		

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		END	THR	SC	1	2	3	END	THR	SC						
<i>Lathyrus palustris</i>	marsh vetchling													x		
<i>Lespedeza capitata</i>	round-headed bush-clover														x	
<i>Lespedeza hirta</i>	hairy bush-clover															x
<i>Lespedeza intermedia</i>	intermediate bush-clover															x
<i>Lespedeza virginica</i>	slender bush-clover	x			x			x			x	x				x
<i>Lupinus perennis</i> ssp. <i>perennis</i>	wild lupine															x
<i>Shepherdia canadensis</i>	Canada soapberry															x
<i>Ammannia robusta</i>	long-leaved ammannia															x
<i>Dirca palustris</i>	leatherwood															x
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	ciliate willow-herb															x
<i>Gaura biennis</i>	biennial gaura													x		
<i>Ludwigia alternifolia</i>	rattle-box															x
<i>Ludwigia polycarpa</i>	many-fruited false loosestrife													x		
<i>Cornus alternifolia</i>	alternate-leaved dogwood															x
<i>Chamaesyce vermiculata</i>	hairy spurge															x
<i>Euphorbia corollata</i>	flowering spurge														x	
<i>Ceanothus americanus</i>	New Jersey tea														x	
<i>Ceanothus herbaceus</i>	narrow-leaved New Jersey tea															x
<i>Vitis aestivalis</i>	summer grape													x		
<i>Polygala sanguinea</i>	blood-red milkwort															x
<i>Polygala verticillata</i>	whorled milkwort														x	
<i>Acer saccharum</i> ssp. <i>nigrum</i>	black maple													x		
<i>Rhus aromatica</i>	fragrant sumac														x	
<i>Rhus copallina</i> var. <i>latifolia</i>	shining sumac															x
<i>Rhus glabra</i>	smooth sumac													x		
<i>Ptelea trifoliata</i>	common hop-tree		x		x				x			x	x			
<i>Heracleum lanatum</i>	cow-parsnip															x

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		END	THR	SC	1	2	3	END	THR	SC						
<i>Oxypolis rigidior</i>	cowbane													X		
<i>Taenidia integerrima</i>	yellow pimpernel													X		
<i>Zizia aurea</i>	golden alexanders														X	
<i>Gentiana andrewsii</i>	closed gentian													X		
<i>Gentianopsis crinita</i>	fringed gentian															X
<i>Asclepias purpurascens</i>	purple milkweed															X
<i>Asclepias sullivantii</i>	Sullivant's milkweed															X
<i>Asclepias tuberosa</i>	butterfly-weed													X		
<i>Lithospermum canescens</i>	hoary puccoon															X
<i>Myosotis verna</i>	spring forget-me-not															X
<i>Verbena stricta</i>	hoary vervain															X
<i>Clinopodium vulgare</i>	wild basil													X		
<i>Physostegia virginiana ssp. virginiana</i>	Virginia false dragonhead															X
<i>Fraxinus profunda</i>	pumpkin ash														X	
<i>Fraxinus quadrangulata</i>	blue ash			X	X					X					X	
<i>Agalinis purpurea</i>	large purple agalinis															X
<i>Agalinis tenuifolia var. macrophylla</i>	slender-leaved agalinis														X	
<i>Aureolaria flava</i>	yellow false foxglove															X
<i>Pedicularis canadensis</i>	Canada wood-betony													X		
<i>Pedicularis lanceolata</i>	swamp wood-betony														X	
<i>Penstemon digitalis</i>	foxglove beard-tongue														X	
<i>Veronica scutellata</i>	marsh speedwell															X
<i>Veronicastrum virginicum</i>	Virginia culver's-root														X	
<i>Orobanche uniflora</i>	one-flowered broom-rape															X
<i>Campsis radicans</i>	trumpet creeper														X	
<i>Lobelia cardinalis</i>	cardinal-flower													X		
<i>Lobelia inflata</i>	Indian tobacco													X		

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		END	THR	SC	1	2	3	END	THR	SC						
<i>Lobelia spicata</i>	pale-spiked lobelia														X	
<i>Diervilla lonicera</i>	bush honeysuckle															X
<i>Lonicera canadensis</i>	American fly honeysuckle															X
<i>Sambucus racemosa ssp. pubens</i>	red-berried elderberry															X
<i>Symphoricarpos albus</i>	snowberry															X
<i>Triosteum aurantiacum</i>	wild coffee														X	
<i>Viburnum trilobum</i>	high bush cranberry													X		
<i>Antennaria neglecta</i>	field pussytoes															X
<i>Aster laevis var. laevis</i>	smooth blue aster													X		
<i>Aster praealtus var. praealtus</i>	willow aster															X
<i>Aster umbellatus var. umbellatus</i>	flat-top white aster															X
<i>Aster X amethystinus</i>	amethyst aster															X
<i>Cirsium discolor</i>	field thistle													X		
<i>Cirsium muticum</i>	swamp thistle															X
<i>Coreopsis tripteris</i>	tall tickseed													X		
<i>Erigeron pulchellus</i>	robin's plantain															X
<i>Eupatorium purpureum var. purpureum</i>	purple joe-pye-weed														X	
<i>Euthamia gymnospermoides</i>	viscid bushy goldenrod															X
<i>Helenium autumnale</i>	common sneezeweed													X		
<i>Helianthus decapetalus</i>	thin-leaved sunflower														X	
<i>Helianthus strumosus</i>	pale-leaved wood sunflower														X	
<i>Krigia biflora var. biflora</i>	two-flowered Cynthia													X		
<i>Lactuca biennis</i>	biennial lettuce														X	
<i>Liatis spicata</i>	spiked blazing star		X			X				X			X		X	
<i>Prenanthes altissima</i>	tall white rattlesnake-root														X	
<i>Prenanthes racemosa ssp. racemosa</i>	glaucous white rattlesnake-root															X
<i>Ratibida pinnata</i>	gray-headed coneflower													X		

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		END	THR	SC	1	2	3	END	THR	SC						
<i>Senecio pauperculus</i>	balsam groundsel														X	
<i>Silphium terebinthinaceum</i> var. <i>terebinthinaceum</i>	prairie dock														X	
<i>Solidago bicolor</i>	white goldenrod														X	
<i>Solidago gigantea</i>	giant goldenrod														X	
<i>Solidago juncea</i>	early goldenrod													X		
<i>Solidago riddellii</i>	Riddell's goldenrod														X	
<i>Solidago rigida</i> ssp. <i>rigida</i>	stiff-leaved goldenrod													X		
<i>Elodea nuttallii</i>	Nuttall's waterweed															X
<i>Symplocarpus foetidus</i>	skunk-cabbage															X
<i>Tradescantia ohioensis</i>	Ohio spiderwort														X	
<i>Juncus biflorus</i>	two-flowered rush															X
<i>Juncus brachycarpus</i>	short-fruited rush															X
<i>Juncus greenei</i>	Greene's rush															X
<i>Juncus marginatus</i>	grass-leaved rush															X
<i>Luzula multiflora</i> ssp. <i>multiflora</i>	woodrush													X		
<i>Carex conoidea</i>	field sedge															X
<i>Carex suberecta</i>	prairie straw sedge														X	
<i>Carex viridula</i> ssp. <i>viridula</i>	greenish sedge															X
<i>Cyperus bipartitus</i>	umbrella sedge													X		
<i>Rhynchospora capitellata</i>	small-headed beaked-rush															X
<i>Scleria triglomerata</i>	tall nut-rush															X
<i>Andropogon gerardii</i>	big bluestem													X		
<i>Andropogon virginicus</i>	Virginia broom-sedge														X	
<i>Aristida longespica</i> var. <i>longespica</i>	long-spiked triple-awned grass															X
<i>Aristida purpurascens</i> var. <i>purpurascens</i>	arrow-feather three-awn															X
<i>Cenchrus longispinus</i>	field sandbur													X		

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		END	THR	SC	1	2	3	END	THR	SC						
<i>Elymus canadensis</i>	nodding wild rye														X	
<i>Elymus riparius</i>	river-bank wild rye															X
<i>Eragrostis spectabilis</i>	purple love grass															X
<i>Panicum latifolium</i>	broad-leaved panic grass													X		
<i>Panicum virgatum</i>	switch grass													X		
<i>Schizachyrium scoparium</i>	little bluestem													X		
<i>Sorghastrum nutans</i>	Indian grass															X
<i>Spartina pectinata</i>	tall cord grass													X		
<i>Sporobolus asper</i>	tall dropseed													X		
<i>Sporobolus vaginiflorus</i>	ensheathed dropseed													X		
<i>Aletris farinosa</i>	colicroot		X		X				X				X			X
<i>Hypoxis hirsuta</i>	yellow star-grass															X
<i>Lilium philadelphicum</i>	wood lily															X
<i>Uvularia sessilifolia</i>	sessile-leaved bellwort													X		
<i>Sisyrinchium albidum</i>	white blue-eyed-grass															X
<i>Smilax herbacea</i>	herbaceous carrion flower															X
<i>Smilax illinoensis</i>	Illinois carrion flower													X		
<i>Cypripedium calceolus var. pubescens</i>	large yellow lady's slipper													X		
<i>Liparis liliifolia</i>	lily-leaved twayblade	X			X			X					X			X
<i>Liparis loeselii</i>	fen twayblade													X		
<i>Platanthera flava var. herbiola</i>	tuberled orchid															X
<i>Platanthera leucophaea</i>	prairie white-fringed orchid	X			X			X					X			X
<i>Spiranthes cernua</i>	nodding ladies' tresses													X		
<i>Spiranthes magnicamporum</i>	great plains ladies' tresses													X		

**TABLE 3 LEGEND****COSEWIC (Committee on the Status of Endangered Wildlife in Canada):**

END Endangered  
THR Threatened  
SC Special Concern

**Local Status (after Oldham 1999):**

U Uncommon  
VU Very Uncommon  
R Rare

**COSSARO (Committee on the Status of Species at Risk in Ontario):**

END Endangered  
THR Threatened  
SC Special Concern

**Legal Status:**

SARA *Species at Risk Act* – Schedules (1), (2), (3)  
ESA *Endangered Species Act*  
PPS Species afforded habitat protection under the Provincial Policy Statement of the *Planning Act*



TABLE 10. REGULATED WILDLIFE SPECIES AND SPECIES WITH LOCAL STATUS IN THE PAA

Wildlife	Scientific Name	Common Name	Federal Regulations										Provincial Regulations				Local Status		
			COSEWIC			SARA			FWCA			MBCA	COSSARO			ESA	PPS	BSC	
			END	THR	SC	1	2	3	P	F	G		END	THR	SC				
Herpetofauna	<i>Rana catesbeiana</i>	bullfrog																	
	<i>Chelydra serpentina</i>	snapping turtle																	
	<i>Sternotherus odoratus</i>	common musk turtle		x		x			x						x			x	
	<i>Chrysemys picta</i>	painted turtle							x										
	<i>Graptemys geographica</i>	map turtle			x	x			x							x			
	<i>Emdoidea blandingii</i>	Blanding's turtle					x		x						x			x	
	<i>Apalone spinifera</i>	spiny softshell		x		x			x						x			x	
	<i>Eumeces fasciatus</i>	five-lined skink			x			x	x							x			
	<i>Thamnophis butleri</i>	Butler's gartersnake		x		x			x						x			x	
	<i>Regina septemvittata</i>	queen snake		x		x			x						x			x	
	<i>Opheodrys vernalis</i>	smooth greensnake							x										
	<i>Lampropeltis triangulum</i>	milk snake			x	x			x							x			
	<i>Elaphe gloydi</i>	eastern fox snake		x		x			x						x			x	
	<i>Sistrurus catenatus</i>	massasauga		x		x			x						x			x	
Birds	<i>Branta canadensis</i>	Canada Goose											x						
	<i>Cygnus olor</i>	Mute Swan											x						
	<i>Aix sponsa</i>	Wood Duck											x						x
	<i>Anas strepera</i>	Gadwall											x						x
	<i>Anas platyrhynchos</i>	Mallard											x						
	<i>Anas discors</i>	Blue-winged Teal											x						x
	<i>Oxyura jamaicensis</i>	Ruddy Duck											x						
	<i>Phasianus colchicus</i>	Ring-necked Pheasant											x	x					
	<i>Meleagris gallopavo</i>	Wild Turkey											x	x					
	<i>Podilymbus podiceps</i>	Pied-billed Grebe											x						x
	<i>Butorides virescens</i>	Green Heron											x						
	<i>Cathartes aura</i>	Turkey Vulture											x						x
	<i>Haliaeetus leucocephalus</i>	Bald Eagle							x				x	x			x	x	x
	<i>Accipiter cooperii</i>	Cooper's Hawk							x				x						

TABLE 10. REGULATED WILDLIFE SPECIES AND SPECIES WITH LOCAL STATUS IN THE PAA

Wildlife	Scientific Name	Common Name	Federal Regulations										Provincial Regulations				Local Status		
			COSEWIC			SARA			FWCA			MBCA	COSSARO			ESA		PPS	BSC
			END	THR	SC	1	2	3	P	F	G		END	THR	SC				
	<i>Buteo jamaicensis</i>	Red-tailed Hawk							x			x							
	<i>Falco sparverius</i>	American Kestrel							x			x						x	
	<i>Falco peregrinus</i>	Peregrine Falcon							x			x							
	<i>Porzana carolina</i>	Sora										x						x	
	<i>Charadrius vociferus</i>	Killdeer										x							
	<i>Actitis macularius</i>	Spotted Sandpiper										x							
	<i>Scolopax minor</i>	American Woodcock										x						x	
	<i>Larus delawarensis</i>	Ring-billed Gull										x							
	<i>Zenaida macroura</i>	Mourning Dove										x							
	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo										x						x	
	<i>Coccyzus americanus</i>	Yellow-billed Cuckoo										x						x	
	<i>Megascops asio</i>	Eastern Screech-Owl							x			x							
	<i>Bubo virginianus</i>	Great Horned Owl							x			x							
	<i>Chordeiles minor</i>	Common Nighthawk										x						x	
	<i>Chaetura pelagica</i>	Chimney Swift										x							
	<i>Archilochus colubris</i>	Ruby-throated Hummingbird										x						x	
	<i>Ceryle alcyon</i>	Belted Kingfisher							x										
	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker										x						x	
	<i>Melanerpes carolinus</i>	Red-bellied Woodpecker										x						x	
	<i>Picoides pubescens</i>	Downy Woodpecker										x							
	<i>Picoides villosus</i>	Hairy Woodpecker										x							
	<i>Colaptes auratus</i>	Northern Flicker										x							
	<i>Contopus virens</i>	Eastern Wood Pewee										x							
	<i>Empidonax traillii</i>	Willow Flycatcher										x							
	<i>Sayornis phoebe</i>	Eastern Phoebe										x						x	
	<i>Myiarchus crinitus</i>	Great Crested Flycatcher										x							
	<i>Tyrannus tyrannus</i>	Eastern Kingbird										x						x	

TABLE 10. REGULATED WILDLIFE SPECIES AND SPECIES WITH LOCAL STATUS IN THE PAA

Wildlife	Scientific Name	Common Name	Federal Regulations										Provincial Regulations				Local Status		
			COSEWIC			SARA			FWCA			MBCA	COSSARO			ESA	PPS	BSC	
			END	THR	SC	1	2	3	P	F	G		END	THR	SC				
	<i>Vireo griseus</i>	White-eyed vireo											x						x
	<i>Vireo flavifrons</i>	Yellow-throated Vireo											x						
	<i>Vireo gilvus</i>	Warbling Vireo											x						
	<i>Vireo olivaceus</i>	Red-eyed Vireo											x						
	<i>Cyanocitta cristata</i>	Blue Jay											x						
	<i>Eremophila alpestris</i>	Horned Lark											x						x
	<i>Progne subis</i>	Purple Martin											x						x
	<i>Tachycineta bicolor</i>	Tree Swallow											x						
	<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow											x						x
	<i>Riparia riparia</i>	Bank Swallow											x						x
	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow											x						x
	<i>Hirundo rustica</i>	Barn Swallow											x						x
	<i>Poecile atricapillus</i>	Black-capped Chickadee											x						
	<i>Baeolophus bicolor</i>	Tufted Titmouse											x						x
	<i>Sitta carolinensis</i>	White-breasted Nuthatch											x						
	<i>Thryothorus ludovicianus</i>	Carolina Wren											x						x
	<i>Troglodytes aedon</i>	House Wren											x						
	<i>Cistothorus palustris</i>	Marsh Wren											x						x
	<i>Poliophtila caerulea</i>	Blue-gray Gnatcatcher											x						x
	<i>Sialia sialis</i>	Eastern Bluebird											x						x
	<i>Hylocichla mustelina</i>	Wood Thrush											x						
	<i>Turdus migratorius</i>	American Robin											x						
	<i>Dumetella carolinensis</i>	Gray Catbird											x						x
	<i>Mimus polyglottos</i>	Northern Mockingbird											x						x
	<i>Toxostoma rufum</i>	Brown Thrasher											x						x

TABLE 10. REGULATED WILDLIFE SPECIES AND SPECIES WITH LOCAL STATUS IN THE PAA

Wildlife	Scientific Name	Common Name	Federal Regulations										Provincial Regulations				Local Status		
			COSEWIC			SARA			FWCA			MBCA	COSSARO			ESA		PPS	BSC
			END	THR	SC	1	2	3	P	F	G		END	THR	SC				
	<i>Bombycilla cedrorum</i>	Cedar Waxwing											x						
	<i>Vermivora pinus</i>	Blue-winged Warbler											x						x
	<i>Dendroica petechia</i>	Yellow Warbler											x						
	<i>Dendroica pensylvanica</i>	Chestnut-sided Warbler											x						x
	<i>Seiurus aurocapilla</i>	Ovenbird											x						x
	<i>Oporornis philadelphia</i>	Mourning Warbler											x						x
	<i>Geothlypis trichas</i>	Common Yellowthroat											x						
	<i>Icteria virens</i>	Yellow-breasted Chat											x						x
	<i>Piranga olivacea</i>	Scarlet Tanager											x						x
	<i>Pipilo erythrophthalmus</i>	Eastern Towhee											x						x
	<i>Spizella passerina</i>	Chipping Sparrow											x						
	<i>Spizella pusilla</i>	Field Sparrow											x						
	<i>Poocetes gramineus</i>	Vesper Sparrow											x						x
	<i>Passerculus sandwichensis</i>	Savannah Sparrow											x						x
	<i>Melospiza melodia</i>	Song Sparrow											x						
	<i>Melospiza georgiana</i>	Swamp Sparrow											x						x
	<i>Cardinalis cardinalis</i>	Northern Cardinal											x						
	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak											x						
	<i>Passerina cyanea</i>	Indigo Bunting											x						
	<i>Dolichonyx oryzivorus</i>	Bobolink											x						x
	<i>Sturnella magna</i>	Eastern Meadowlark											x						x
	<i>Icterus spurius</i>	Orchard Oriole											x						x
	<i>Icterus galbula</i>	Baltimore Oriole											x						
	<i>Carpodacus mexicanus</i>	House Finch											x						
	<i>Carduelis tristis</i>	American Goldfinch											x						x

**TABLE 10. REGULATED WILDLIFE SPECIES AND SPECIES WITH LOCAL STATUS IN THE PAA**

Wildlife	Scientific Name	Common Name	Federal Regulations										Provincial Regulations				Local Status		
			COSEWIC			SARA			FWCA			MBCA	COSSARO			ESA		PPS	BSC
			END	THR	SC	1	2	3	P	F	G		END	THR	SC				
Mammals	<i>Didelphis virginiana</i>	Virginia opossum								x									
	<i>Blarina brevicauda</i>	northern short-tailed shrew								x									
	<i>Myotis lucifugus</i>	little brown bat								x									
	<i>Eptesicus fuscus</i>	big brown bat								x									
	<i>Lasionycteris noctivagans</i>	silver-haired bat								x									
	<i>Lasiurus borealis</i>	eastern red bat								x									
	<i>Lasiurus cinereus</i>	hoary bat								x									
	<i>Sylvilagus floridanus</i>	eastern cottontail											x						
	<i>Lepus europaeus</i>	European hare											x						
	<i>Sciurus carolinensis</i>	gray squirrel											x						
	<i>Tamiasciurus hudsonicus</i>	red squirrel									x								
	<i>Tamias striatus</i>	eastern chipmunk								x									
	<i>Ondatra zibethica</i>	muskrat									x								
	<i>Canis latrans</i>	coyote									x								
	<i>Vulpes vulpes</i>	red fox									x								
	<i>Urocyon cinereoargenteus</i>	gray fox		x							x			x			x		
	<i>Procyon lotor</i>	raccoon									x								
	<i>Mustela frenata</i>	long-tailed weasel									x								
	<i>Mustela vison</i>	American mink									x								
	<i>Mephitis mephitis</i>	striped skunk									x								
	<i>Odocoileus virginianus</i>	white-tailed deer										x							

**TABLE 10 LEGEND****COSEWIC (Committee on the Status of Endangered Wildlife in Canada):**

END Endangered  
THR Threatened  
SC Special Concern

**Provincial:**

BSC Bird Studies Canada species of conservation priority in Essex County

**COSSARO (Committee on the Status of Species at Risk in Ontario):**

END Endangered  
THR Threatened  
SC Special Concern

**Legal Status:**

SARA *Species at Risk Act* – Schedules (1), (2), (3)

ESA *Endangered Species Act*

MBCA *Migratory Birds Convention Act*

FWCA *Fish and Wildlife Conservation Act*

(P) Protected Species

(G) Game Species

(F) Furbearing Mammals

PPS Species afforded habitat protection under the Provincial Policy Statement of the *Planning Act*

TABLE 11. NATURAL AREAS SUMMARY TABLE

Name	Provincial Nature Reserve	Provincial Life Science ANSI	Regional Life Science ANSI	Life Science Site	Provincial Earth Science ANSI	Regional Earth Science ANSI	Earth Science Site	Provincially Significant Wetland	Non-Provincially Significant Wetland	Unevaluated Wetland	Carolinian Canada Site	Environmentally Significant Area	International Biological Program Site Candidate	Natural Heritage Site	Federally Regulated Species	Provincially Regulated Species	Species with Local Status	Number of Criteria Satisfied
Ojibway Prairie Provincial Nature Reserve	x	x		x							x	x			x	x	x	8
Ojibway Prairie Complex		x		x							x	x			x	x	x	7
Prairie Remnants (Ojibway Park) Life ANSI		x		x							x	x			x	x	x	7
Prairie Remnants (Titcombe Road North) Life ANSI		x		x							x	x			x	x	x	7
Prairie Remnants (Spring Garden Road) Life ANSI		x		x							x	x		x	x	x	x	8
Prairie Remnants (Black Oak Woods) Life ANSI		x		x							x	x			x	x	x	7
Prairie Remnants (Southeast of Nature Reserve) Life ANSI		x		x							x	x						4
Allied Chemical Quarry					x													1
Detroit River Marshes								x				x			x	x	x	5
Canard River Marshes								x				x			x	x	x	5
Turkey Creek Wetland								x				x			x	x	x	5
Fighting Island Wetland				x				x				x			x	x	x	6
Canard River Scout Camp			x	x								x			x	x	x	6
Canard River Kentucky Coffee-tree Woods			x	x							x	x			x	x	x	7
Allied Chemical Brine Wells				x				x				x			x	x	x	6
Devonwood			x	x								x			x	x	x	6
Sandwich West Woodlot (LaSalle Woods)				x								x			x	x	x	5
Upper Big Creek Woods				x								x			x	x	x	5
Fairplay Woods				x								x			x	x	x	5
New Canaan Woods												x			x	x	x	4

**TABLE 11. NATURAL AREAS SUMMARY TABLE**

Name	Provincial Nature Reserve	Provincial Life Science ANSI	Regional Life Science ANSI	Life Science Site	Provincial Earth Science ANSI	Regional Earth Science ANSI	Earth Science Site	Provincially Significant Wetland	Non-Provincially Significant Wetland	Unevaluated Wetland	Carolinian Canada Site	Environmentally Significant Area	International Biological Program Site Candidate	Natural Heritage Site	Federally Regulated Species	Provincially Regulated Species	Species with Local Status	Number of Criteria Satisfied
Peche Island				x								x		x	x	x	x	6
Reaume Prairie				x								x			x	x	x	5
St. Clair College Prairie				x											x	x	x	4
CNHS - TC1														x	x	x	x	4
CNHS - TC2														x	x	x	x	4
CNHS - TC3												x		x	x	x	x	5
CNHS - TC4														x	x	x	x	4
CNHS - TC5/M1														x	x	x	x	4
CNHS - TC6														x	x	x	x	4
CNHS - TC7/CA1														x	x	x	x	4
CNHS - TC8														x	x	x	x	4
CNHS - M2														x	x	x	x	4
CNHS - M3														x	x	x	x	4
CNHS - M4														x			x	2
CNHS - M5														x	x	x	x	4
CNHS - M6/CH1														x			x	2
CNHS - M7-M10														x	x	x	x	4
CNHS - CH2														x			x	2
CNHS - CH3/M11														x	x	x	x	4
CNHS - CH4														x	x	x	x	4
CNHS - CH5														x	x	x		3
CNHS - CA2														x	x	x	x	4
CNHS - CA3														x			x	2
CNHS - CA4														x	x	x	x	4
CNHS - CA5														x	x	x	x	4
CNHS - CA6														x	x	x	x	4
CNHS - CA7														x	x	x	x	4
CNHS - CA8														x	x	x	x	4
CNHS - CA9														x	x	x	x	4



**TABLE 11. NATURAL AREAS SUMMARY TABLE**

Name	Provincial Nature Reserve	Provincial Life Science ANSI	Regional Life Science ANSI	Life Science Site	Provincial Earth Science ANSI	Regional Earth Science ANSI	Earth Science Site	Provincially Significant Wetland	Non-Provincially Significant Wetland	Unevaluated Wetland	Carolinian Canada Site	Environmentally Significant Area	International Biological Program Site Candidate	Natural Heritage Site	Federally Regulated Species	Provincially Regulated Species	Species with Local Status	Number of Criteria Satisfied
CNHS - CA10														X	X	X		3
CNHS - W1														X				1
CNHS - W2														X			X	2
CNHS - W3														X	X	X		3
CNHS - W4														X				1
CNHS - W5														X				1
CNHS - W6														X	X	X	X	4
CNHS - W7										X				X	X	X	X	5
CNHS - W8														X	X	X		3
CNHS - W9														X	X	X	X	4
CNHS - W10														X	X	X	X	4
CNHS - W11														X	X	X	X	4
CNHS - W12														X				1
CNHS - W13														X				1
CNHS - W14														X	X	X	X	4
CNHS - W18														X	X	X	X	4
CNHS - W19														X				1
CNHS - W20														X				1
CNHS - W21														X				1
CNHS - W22														X				1
CNHS - W23														X				1
CNHS - W24														X	X	X	X	4
CNHS - W25														X			X	2
CNHS - W26														X	X	X	X	4
CNHS - W27														X				1
CNHS - W28														X			X	2
CNHS - W29														X	X	X	X	4
CNHS - W30														X	X	X	X	4
CNHS - W31														X	X	X	X	4

TABLE 11. NATURAL AREAS SUMMARY TABLE

Name	Provincial Nature Reserve	Provincial Life Science ANSI	Regional Life Science ANSI	Life Science Site	Provincial Earth Science ANSI	Regional Earth Science ANSI	Earth Science Site	Provincially Significant Wetland	Non-Provincially Significant Wetland	Unevaluated Wetland	Carolinian Canada Site	Environmentally Significant Area	International Biological Program Site Candidate	Natural Heritage Site	Federally Regulated Species	Provincially Regulated Species	Species with Local Status	Number of Criteria Satisfied
CNHS - W32														X	X	X	X	4
CNHS - W33		X										X		X	X	X	X	6
CNHS - W34		X										X		X	X	X	X	6
CNHS - W35														X	X	X	X	4
CNHS - W36														X			X	3
CNHS - W37														X	X	X	X	4
CNHS - W38														X			X	2

As a Canadian Heritage River, the Detroit River is included within the *Canadian Heritage River System Charter*. The CHRS designation recognizes the Detroit River as being unique in North America as a waterway between two sovereign countries, with heavily urbanized areas on the shores of two countries. In addition, a number of regulated fish species have been documented to inhabit the Detroit River and its subwatersheds located within the PAA (see Table 8).

## 6.5. Planned Land Use

Natural heritage features have been incorporated into municipal policy documents such as official plans. In many cases designated natural areas within these municipalities fall within these land use designations. A summary of the land use designations found within the Official Plans of the City of Windsor, Town of LaSalle, Town of Tecumseh and Town of Amherstburg, including the criteria used to establish these designations, the permitted uses in these areas and the level of protection, is presented in Table 12.

# 7. GAPS IN SECONDARY DATA

## 7.1. Secondary Data to be Obtained

A number of documents that summarize the existing natural heritage features of the PAA are available, but have yet to be obtained. LGL Limited will continue to seek and gather background information on the existing natural heritage features of the PAA.

## 7.2. Secondary Data Out of Date

With the exception of Official Plans and information available online, the majority of data on the natural environment of the PAA was produced in the early 1990s or earlier. Many of the wetland evaluation data records and ANSI reports were produced in the mid-1980s, resulting from field work performed at that time. The Environmentally Significant Areas report was produced in 1983, with an update in 1994. The Candidate Natural Heritage Sites for the City of Windsor and the Town of LaSalle were produced in 1992 and 1996, respectively. Fish collection records in selected locations were prepared prior to 1980, though a number were updated in 2000 and 2001.

**TABLE 12. SUMMARY OF OFFICIAL PLAN DESIGNATIONS AND LEVEL OF PROTECTION FOR MUNICIPALITIES IN THE PAA**

Jurisdiction	Legal Status	Designations	Criteria Used	Permitted Uses	Level of Protection
<b>Town of Amherstburg</b>					
Town of Amherstburg Official Plan	Adopted March 22, 1999  Approved by the Province July 6, 1999	Natural Environment	<ul style="list-style-type: none"> <li>valleylands, habitat of endangered and threatened species, fish habitat, significant woodlands, wildlife habitat and ANSIs</li> <li>as identified by OMNR and ERCA</li> </ul>	<ul style="list-style-type: none"> <li>wildlife management including hunting and fishing,</li> <li>natural environmental management</li> <li>passive outdoor recreation</li> <li>conservation</li> <li>associated facilities</li> </ul>	<ul style="list-style-type: none"> <li>Zoned 'Natural Environment' in Town's Zoning By-law</li> <li>Provincial Policy Statement</li> <li><i>Planning Act</i></li> <li>Municipal practice</li> <li>Site alteration subject to an EIS</li> </ul>
		Wetland	<ul style="list-style-type: none"> <li>Provincially Significant Wetlands as identified by OMNR</li> </ul>	<ul style="list-style-type: none"> <li>conservation</li> <li>fish and wildlife management areas</li> <li>passive open space uses</li> <li>existing agricultural uses</li> <li>any buildings/ structures associated with a permitted use</li> </ul>	<ul style="list-style-type: none"> <li>Zoned Wetland in Town's Zoning By-law</li> <li>Provincial Policy Statement</li> <li><i>Planning Act</i></li> <li>Municipal practice</li> <li>Development on adjacent lands subject to an EIS</li> </ul>

**TABLE 12. SUMMARY OF OFFICIAL PLAN DESIGNATIONS AND LEVEL OF PROTECTION FOR MUNICIPALITIES IN THE PAA**

Jurisdiction	Legal Status	Designations	Criteria Used	Permitted Uses	Level of Protection
<b>Town of LaSalle</b>					
Town of LaSalle Official Plan	Adopted by Council October 17, 1997  Approved by the Province May 18, 1998	Wetland	<ul style="list-style-type: none"> <li>identified by OMNR as provincially significant</li> </ul>	<ul style="list-style-type: none"> <li>conservation</li> <li>fish and wildlife management areas</li> <li>passive open space uses</li> <li>existing agricultural uses</li> <li>buildings and structures used in conjunction with a permitted use</li> </ul>	<ul style="list-style-type: none"> <li>Significant features are protected via Provincial Policy Statement</li> <li><i>Planning Act</i></li> <li>Municipal practice</li> </ul>
		Natural Environment	<ul style="list-style-type: none"> <li>provincial and regionally significant ANSIs</li> </ul>	<ul style="list-style-type: none"> <li>passive recreation, wildlife management, and conservation uses and buildings/ structures associated with these uses</li> </ul>	<ul style="list-style-type: none"> <li>Public purchase, private stewardship, conservation easements, and management agreements</li> <li><i>Planning Act</i></li> <li>Municipal practice</li> </ul>

**TABLE 12. SUMMARY OF OFFICIAL PLAN DESIGNATIONS AND LEVEL OF PROTECTION FOR MUNICIPALITIES IN THE PAA**

Jurisdiction	Legal Status	Designations	Criteria Used	Permitted Uses	Level of Protection
<b>Town of Tecumseh</b> (Part of Windsor and Suburban Planning Area since June 13, 1946)					
Tecumseh Official Plan	Adopted November 27, 1973  Fully approved by the OMB August 25, 1978	None specified	<ul style="list-style-type: none"> <li>not applicable</li> </ul>	<ul style="list-style-type: none"> <li>not applicable</li> </ul>	<ul style="list-style-type: none"> <li>ERCA review</li> <li>Provincial Policy Statement</li> </ul>
Sandwich South Official Plan	Adopted June 23, 1997  Approved by the Province March 13, 1998	Natural Environment	<ul style="list-style-type: none"> <li>preserve, protect and enhance the remaining natural areas for ecological and/or passive open space purposes</li> <li>create/protect linkages and corridors</li> </ul>	<ul style="list-style-type: none"> <li>passive recreation</li> <li>wildlife management</li> <li>conservation uses</li> </ul>	<ul style="list-style-type: none"> <li><i>Planning Act</i></li> <li>Provincial Policy Statement</li> <li>Municipal practice</li> <li>ERCA review</li> </ul>
St. Clair Beach Official Plan	Adopted December 1989  Not stated  All OPAs adopted and approved by Province as of January 23, 2004	None specified	<ul style="list-style-type: none"> <li>not applicable</li> </ul>	<ul style="list-style-type: none"> <li>not applicable</li> </ul>	<ul style="list-style-type: none"> <li>Provincial Policy Statement</li> <li>Municipal Practice</li> <li>ERCA review</li> </ul>

**TABLE 12. SUMMARY OF OFFICIAL PLAN DESIGNATIONS AND LEVEL OF PROTECTION FOR MUNICIPALITIES IN THE PAA**

Jurisdiction	Legal Status	Designations	Criteria Used	Permitted Uses	Level of Protection
<b>City of Windsor</b>					
City of Windsor Official Plan	Adopted by Council on October 29, 1999  Partly approved by the Province March 28, 2000  Fully approved by OMB November 1, 2001	Public and private open space	<ul style="list-style-type: none"> <li>need for use and location must be demonstrated to the City at the time of application for a request to change land use designation</li> </ul>	<ul style="list-style-type: none"> <li>recreation and leisure areas and facilities</li> </ul>	<ul style="list-style-type: none"> <li>Provincial Policy Statement</li> <li><i>Planning Act</i></li> <li>Municipal practice</li> </ul>
		Natural Heritage	<ul style="list-style-type: none"> <li>none specified</li> </ul>	<ul style="list-style-type: none"> <li>nature reserves and wildland management</li> </ul>	<ul style="list-style-type: none"> <li>Provincial Policy Statement</li> <li><i>Planning Act</i></li> <li>Municipal practice</li> </ul>
		Waterfront (recreation, residential and port)	<ul style="list-style-type: none"> <li>none specified</li> </ul>	<ul style="list-style-type: none"> <li>recreation and leisure activities, facilities and marina for pleasure craft, low profile dwelling units, and industry/business requiring direct water access</li> </ul>	<ul style="list-style-type: none"> <li>Provincial Policy Statement</li> <li>Municipal practice</li> <li><i>Planning Act</i></li> </ul>
		Development Constraints (Natural Heritage, Environmental Policy Area, Candidate Natural Heritage Site, Aggregate Resource Site, Mineral Mining Site, Floodplain Area, Shoreline and Floodprone Area, Potentially Contaminated Sites)	<ul style="list-style-type: none"> <li>development applications on lands containing constraints must do applicable studies to confirm nature, scope and potential for impact of proposed use</li> <li>environmental constraints must be addressed via Environmental Evaluation Report</li> </ul>	<ul style="list-style-type: none"> <li>as described above</li> </ul>	<ul style="list-style-type: none"> <li>Municipal practice</li> <li><i>Planning Act</i></li> </ul>






Portions of the City of Windsor and the Town of LaSalle are expanding and encroaching on these natural environmental features, as evidenced by the removal of several CNHSs prior to the finalization of the CNHS reports (City of Windsor 1992). The reduction in the size or complete removal of these areas suggests the possibility that populations and individual species reported as present in the 1980s and the 1990s could also have been altered since that time. Thus, much of the data gathered to date requires verification and/or updating via field reconnaissance.

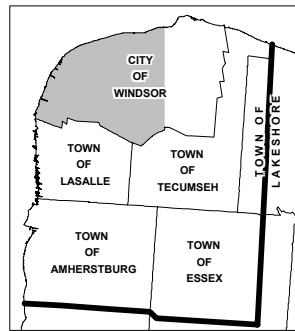
### 7.3. Data Unavailable

It is estimated that the natural vegetation/forest cover within the County of Essex is currently between one and three percent (J. Ritchie, OMNR, pers. comm.). While the majority of the natural vegetation presently in the PAA has been included within designated natural areas such as evaluated wetlands, ANSIs, ESAs and CNHSs, several patches of natural vegetation and wildlife habitat have yet to be qualitatively and/or quantitatively assessed. These vegetation communities are primarily located within the Towns of Tecumseh, Amherstburg, Essex and Lakeshore, as formal biological inventories of non-designated areas has not been undertaken in these municipalities. A smaller number of these areas are located within the City of Windsor and the Town of LaSalle. Their presence in these two municipalities persists despite programs like the CNHS inventory in part because of ownership and property access issues. Areas for which no known formal biological inventories have been undertaken are presented in Figures 3A through 3F.



LEGEND

-  Study Area Boundary
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Potential Natural Heritage Feature



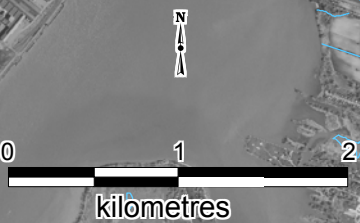
Data Sources:

**NATURAL HERITAGE  
CITY OF WINDSOR (WEST)**



LGL Limited  
environmental research associates






Project: TA4137	Figure: 2A
Date: March 2005	Prepared By: MWF
Scale: 1 : 44,500	Checked By: GNK

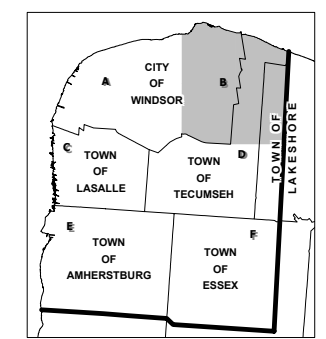






**LEGEND**

-  Study Area Boundary
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Potential Natural Heritage Feature



Data Sources: LGL Limited.

**POTENTIAL NATURAL HERITAGE FEATURES  
CITY OF WINDSOR (EAST),  
TOWN OF TECUMSEH (NORTH)  
AND TOWN OF LAKESHORE  
(NORTH-WEST)**








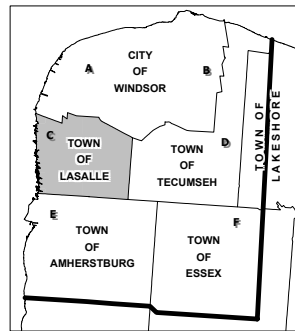
LGL Limited  
environmental research associates

Project: TA4137	Figure: 3B
Date: March 2005	Prepared By: MWF
Scale: 1 : 44,500	Checked By: GNK



LEGEND

-  Study Area Boundary
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Potential Natural Heritage Feature



Data Sources: LGL Limited.

**POTENTIAL NATURAL HERITAGE FEATURES  
TOWN OF LASALLE**

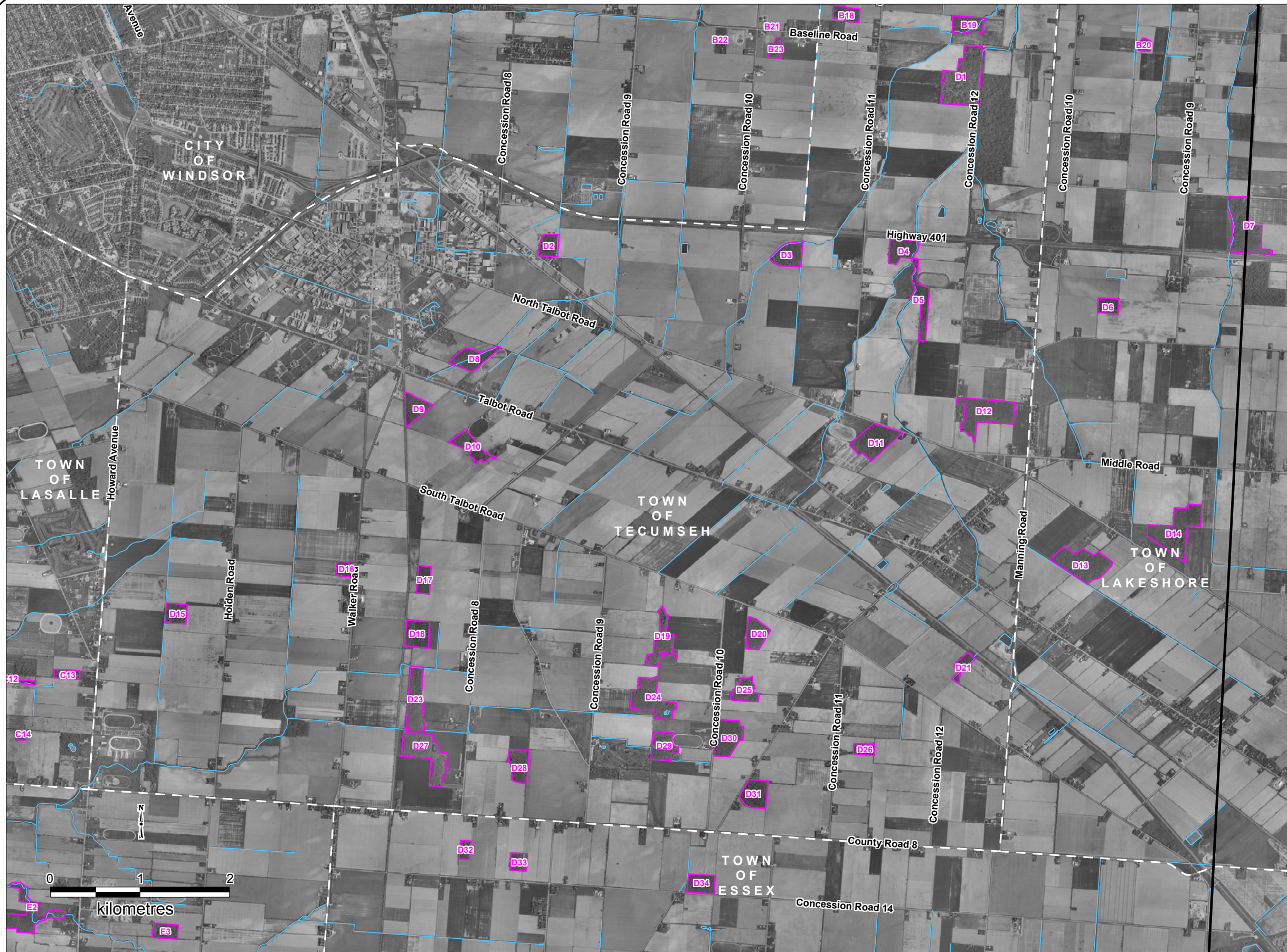


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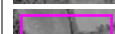
Project: TA4137	Figure: 3C
Date: March 2005	Prepared By: MWF
Scale: 1 : 44,500	Checked By: GNK

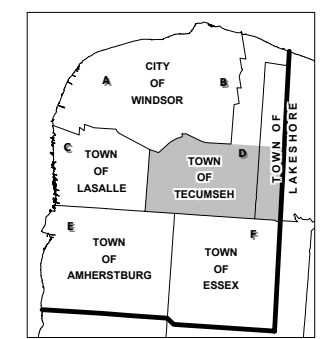






**LEGEND**

-  Study Area Boundary
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Potential Natural Heritage Feature



Data Sources: LGL Limited.






**POTENTIAL NATURAL HERITAGE FEATURES  
TOWN OF TECUMSEH (SOUTH) AND TOWN OF LAKESHORE (SOUTH-WEST)**

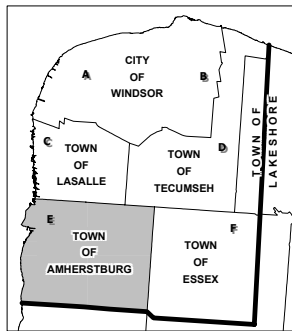


Project: TA4137	Figure: 3D
Date: March 2005	Prepared By: MWF
Scale: 1 : 44,500	Checked By: GNK



LEGEND

-  Study Area Boundary
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Potential Natural Heritage Feature



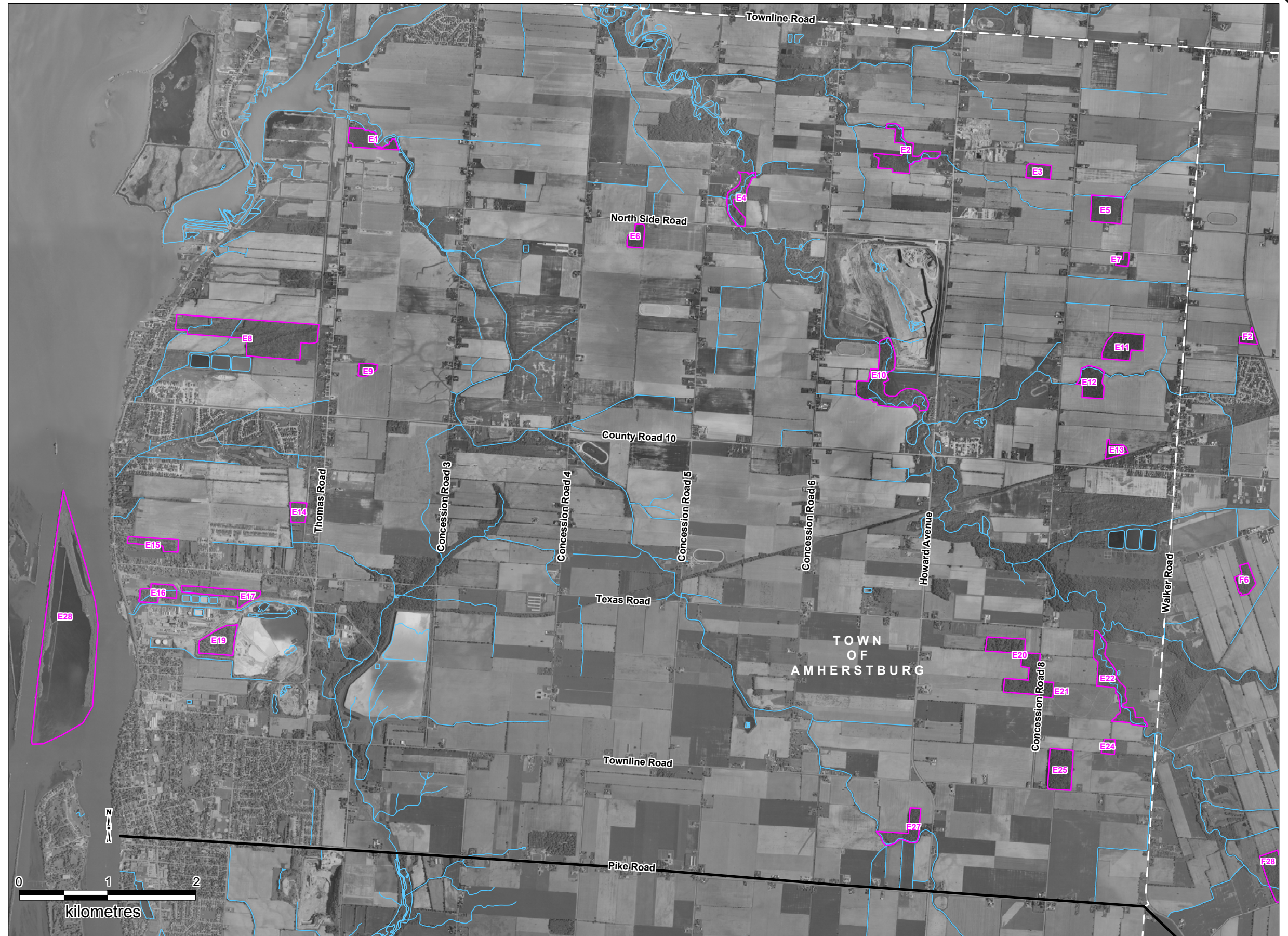
Data Sources: LGL Limited.

**POTENTIAL NATURAL HERITAGE FEATURES  
TOWN OF AMHERSTBURG**

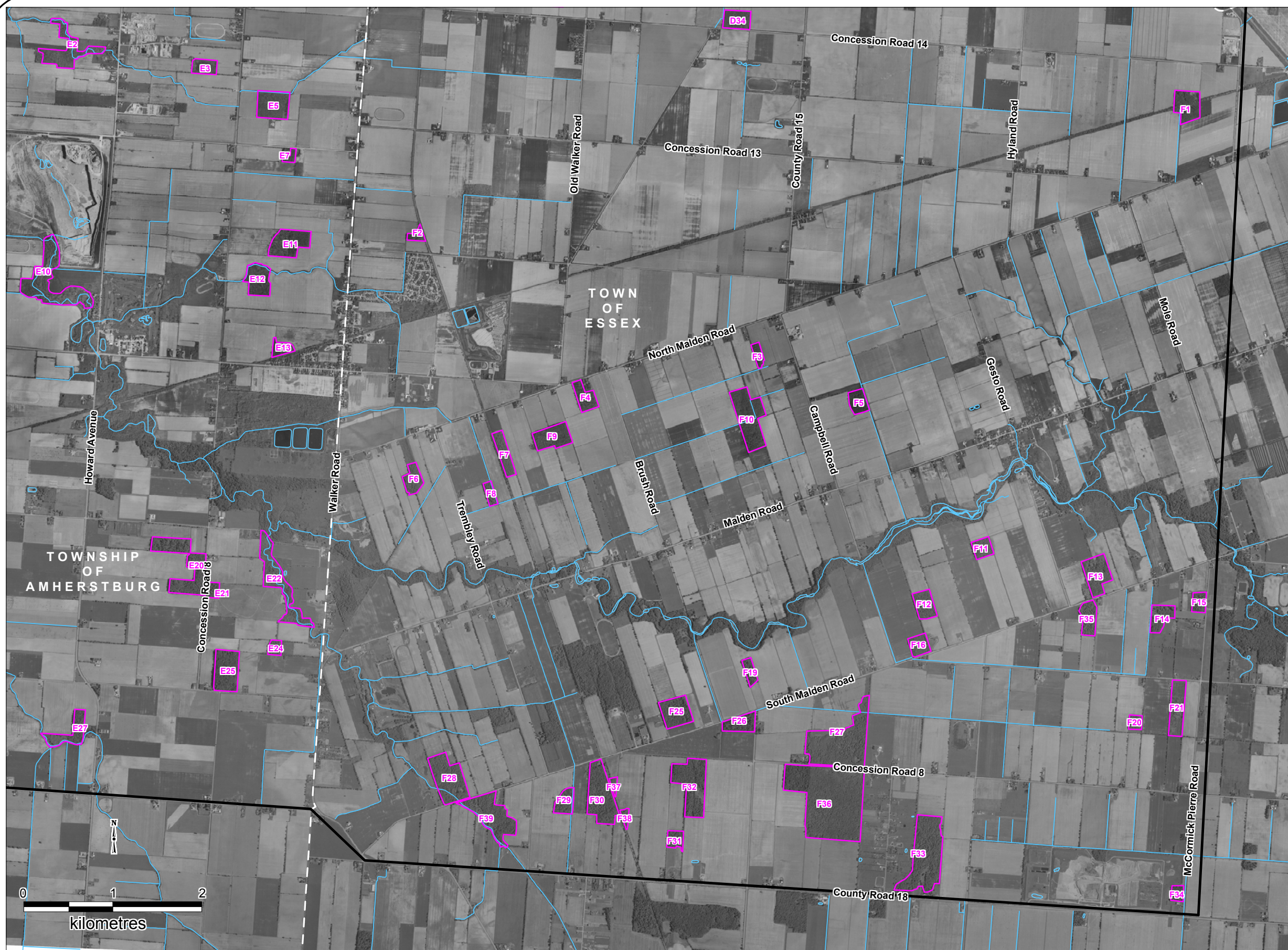


LGL Limited  
environmental research associates

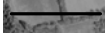




Project: TA4137	Figure: 3E
Date: March 2005	Prepared By: MWF
Scale: 1 : 44,500	Checked By: GNK

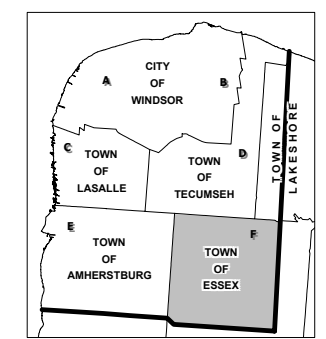






**LEGEND**

-  Study Area Boundary
-  Municipal Boundary
-  Watercourse
-  Waterbody
-  Potential Natural Heritage Feature



Data Sources: LGL Limited.

**POTENTIAL NATURAL HERITAGE FEATURES  
TOWN OF ESSEX**



LGL Limited  
environmental research associates

Project: TA4137	Figure: 3F
Date: March 2005	Prepared By: MWF
Scale: 1 : 44,500	Checked By: GNK



## 8. ADDITIONAL WORK REQUIREMENTS

Additional work requirements are described in the Detroit River International Crossing Natural Heritage Work Plan (LGL Limited 2005).

## 9. SUMMARY

### 9.1 Summary

This Environmental Overview Paper (June 2005) has documented the current social, economic and environmental conditions in the Preliminary Analysis Area in order to identify constraints that may be faced in the development of proposed alternatives or the expansion or conversion of existing corridors

On the Canadian side, the density of protected natural features located along the Detroit River may present particular challenges. Because these natural features are small remnants of the original, they are particularly high in value and accordingly protected by statute, regulation and policy, and international agreement. Any alternatives that impact these features will undergo extensive studies to thoroughly document the current condition of such features and to completely understand the potential affects upon them. These studies may undergo successive review by several different agencies and levels of government.

Cultural features such as historical sites, parks, and cemeteries may, because of their number and density, pose particular challenges. Natural features such as wetlands are particularly highly valued because of their scarcity, but given their relative locations, may difficult to avoid fully.

Contaminated sites may present opportunities rather than challenges because the extent of cleanup is now limited to that which is commensurate with the safe re-use of the property. The liabilities for such properties, if acquired for right of way for transportation projects, are very limited if cleanup and use are conducted in accordance with applicable statutes and standards.

The following features are considered to influence the location for transportation corridors:

- commercial and residential areas;
- natural features;
- land uses or areas that are in transition to compatible transportation land uses (an opportunity); and,
- existing transportation infrastructure.

The following features may constrain, but do not preclude transportation facilities:

- parks and recreation areas;
- museums, zoos and aquariums;
- public libraries;
- churches, mosques and synagogues;
- cemeteries;
- archaeological sites and cultural heritage resources; and,
- wetlands, fisheries and wildlife habitat.



## 9.2

### Environmental Issues

The individual environmental issues, all of which are referenced under the umbrella term “environmental” in this paper, each carry their own intricacies and complexities. A characteristic that they share, however, is that they are all site-specific. Any analyses of potential impacts upon them are, therefore, necessarily also site specific.

The original environment on both sides of the Detroit River has been extensively modified or obliterated. On the Canadian side of the River, extensive efforts are underway at all levels of government to delineate and protect many of those natural features that remain. Additionally, Canada and the United States have joined together to create international programs dedicated to the preservation and enhancement of the natural features of the Detroit River and its tributaries. Because of the high value that is placed on these natural features, any proposed alternatives which have the potential to directly or, in some cases, indirectly impact these natural features may face significant challenges.

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**APPENDIX A**

**WORKING VASCULAR PLANT CHECKLIST**

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<b>EQUISETACEAE</b>	<b>HORSETAIL FAMILY</b>					
<i>Equisetum arvense</i>	field horsetail					S5
<i>Equisetum laevigatum</i>	smooth scouring-rush			VU		S4
<b>OSMUNDACEAE</b>	<b>ROYAL FERN FAMILY</b>					
<i>Osmunda cinnamomea</i>	cinnamon fern			U		S5
<i>Osmunda claytoniana</i>	interrupted fern			U		S5
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern			U		S5
<b>DENNSTAEDTIACEAE</b>	<b>BRACKEN FERN FAMILY</b>					
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	eastern bracken-fern			U		S5
<b>THELYPTERIDACEAE</b>	<b>MARSH FERN</b>					
<i>Thelypteris palustris</i> var. <i>pubescens</i>	marsh fern					S5
<b>DRYOPTERIDACEAE</b>	<b>WOOD FERN FAMILY</b>					
<i>Athyrium filix-femina</i> var. <i>angustum</i>	northern lady fern					S5
<i>Dryopteris carthusiana</i>	spinulose wood fern					S5
<i>Onoclea sensibilis</i>	sensitive fern					S5
<b>PINACEAE</b>	<b>PINE FAMILY</b>					
<i>Pinus strobus</i>	eastern white pine			R		S5
* <i>Pinus sylvestris</i>	scotch pine					SE5
<b>CUPRESSACEAE</b>	<b>CEDAR FAMILY</b>					
<i>Juniperus communis</i>	common juniper					S5
<i>Juniperus virginiana</i>	eastern red cedar					S5
<b>MAGNOLIACEAE</b>	<b>MAGNOLIA FAMILY</b>					
<i>Liriodendron tulipifera</i>	tulip tree			U		S4
<b>ANNONACEAE</b>	<b>CUSTARD-APPLE FAMILY</b>					
<i>Asimina triloba</i>	pawpaw			VU		S3
<b>LAURACEAE</b>	<b>LAUREL FAMILY</b>					
<i>Lindera benzoin</i>	spicebush					S5
<i>Sassafras albidum</i>	sassafras					S4

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<b>ARISTOLOCHACEAE</b>	<b>DUCHMAN'S-PIPE FAMILY</b>					
* <i>Aristolochia macrophylla</i>	Dutchman's-pipe					SE1
<b>NYMPHAEACEAE</b>	<b>WATER-LILY FAMILY</b>					
<i>Nuphar advena</i>	large yellow pond-lily			U		S3
<b>RANUNCULACEAE</b>	<b>BUTTERCUP FAMILY</b>					
<i>Actaea rubra</i>	red baneberry			U		S5
<i>Anemone cylindrica</i>	thimbleweed			VU		S4
<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	wood anemone					S5
<i>Anemone virginiana</i> var. <i>virginiana</i>	thimbleweed					S5
<i>Aquilegia canadensis</i>	wild columbine					S5
<i>Clematis virginiana</i>	virgin's-bower			VU		S5
<i>Ranunculus abortivus</i>	kidney-leaf buttercup					S5
<i>Ranunculus fascicularis</i>	early buttercup			U		S4
<i>Ranunculus hispidus</i> var. <i>caricetorum</i>	swamp buttercup					S5
<i>Ranunculus sceleratus</i> var. <i>sceleratus</i>	cursed buttercup					S5
<i>Thalictrum dasycarpum</i>	purple meadow-rue					S4?
<i>Thalictrum dioicum</i>	early meadow-rue					S5
<i>Thalictrum revolutum</i>	waxy meadow-rue			R		S2
<b>BERBERIDACEAE</b>	<b>BARBERRY FAMILY</b>					
* <i>Berberis thunbergii</i>	Japanese barberry					SE5
<i>Podophyllum peltatum</i>	may-apple					S5
<b>MENISPERMACEAE</b>	<b>MOONSEED FAMILY</b>					
<i>Menispermum canadense</i>	moonseed					S4
<b>PAPAVERACEAE</b>	<b>POPPY FAMILY</b>					
* <i>Chelidonium majus</i>	celandine					SE5
<b>PLATANACEAE</b>	<b>PLANE-TREE FAMILY</b>					
<i>Platanus occidentalis</i>	sycamore					S4
<b>HAMAMELIDACEAE</b>	<b>WITCH-HAZEL FAMILY</b>					
<i>Hamamelis virginiana</i>	witch-hazel					S5

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<b>ULMACEAE</b>	<b>ELM FAMILY</b>					
<i>Celtis occidentalis</i>	common hackberry					S4
<i>Celtis tenuifolia</i>	dwarf hackberry	THR	THR	R	SARA(3), PPS	S2
<i>Ulmus americana</i>	white elm					S5
* <i>Ulmus pumila</i>	Siberian elm					SE3
<i>Ulmus rubra</i>	slippery elm					S5
<i>Ulmus thomasii</i>	rock elm			VU		S4?
<b>MORACEAE</b>	<b>MULBERRY FAMILY</b>					
* <i>Morus alba</i>	white mulberry					SE5
<i>Morus rubra</i>	red mulberry	END	END	VU	SARA(1), PPS	S2
<b>URTICACEAE</b>	<b>NETTLE FAMILY</b>					
<i>Parietaria pensylvanica</i>	Pennsylvania pellitory			U		S4
<i>Pilea pumila</i>	dwarf clearweed					S5
<i>Urtica dioica</i> ssp. <i>gracilis</i>	American stinging nettle					S5
<b>JUGLANDACEAE</b>	<b>WALNUT FAMILY</b>					
<i>Carya cordiformis</i>	bitternut hickory					S5
<i>Carya glabra</i>	pignut hickory			VU		S3
<i>Carya laciniosa</i>	big shellbark hickory					S3
<i>Carya ovata</i> var. <i>ovata</i>	shagbark hickory					S5
<i>Juglans cinerea</i>	butternut					S4
<i>Juglans nigra</i>	black walnut					S4
<b>MYRICACEAE</b>	<b>WAX-MYRTLE FAMILY</b>					
<i>Comptonia peregrina</i>	sweetfern			R		S5
<b>FAGACEAE</b>	<b>BEECH FAMILY</b>					
<i>Castanea dentata</i>	American chestnut	THR	THR	U	SARA(2), PPS	S3
<i>Fagus grandifolia</i>	American beech					S5
<i>Quercus alba</i>	white oak					S5
<i>Quercus bicolor</i>	swamp white oak					S4
<i>Quercus macrocarpa</i>	bur oak					S5



**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Quercus muhlenbergii</i>	chinquapin oak			U		S4
<i>Quercus palustris</i>	pin oak					S3
<i>Quercus rubra</i>	red oak					S5
<i>Quercus shumardii</i>	shumard oak	SC	SC	U	SARA(3)	S3
<i>Quercus velutina</i>	black oak					S4
<i>Quercus X schuettei</i>	Schuett's oak			R		S1
<b>BETULACEAE</b>	<b>BIRCH FAMILY</b>					
<i>Betula alleghaniensis</i>	yellow birch			VU		S5
* <i>Betula pendula</i>	European weeping birch					SE4
<i>Carpinus caroliniana ssp. virginiana</i>	blue beech					S5
<i>Corylus americana</i>	American hazel					S5
<i>Ostrya virginiana</i>	ironwood					S5
<b>PHYTOLACCACEAE</b>	<b>POKEWEED FAMILY</b>					
<i>Phytolacca americana</i>	pokeweed					S4
<b>CHENOPODIACEAE</b>	<b>GOOSEFOOT FAMILY</b>					
<i>Atriplex patula</i>	spreading atriplex			U		S5
* <i>Chenopodium album var. album</i>	lamb's quarters					SE5
<i>Chenopodium simplex</i>	maple-leaved goosefoot			U		S5
<b>PORTULACACEAE</b>	<b>PURSLANE FAMILY</b>					
<i>Claytonia virginica</i>	Virginia spring beauty					S5
<b>CARYOPHYLLACEAE</b>	<b>PINK FAMILY</b>					
* <i>Arenaria serpyllifolia</i>	thyme-leaved sandwort					SE5
* <i>Dianthus armeria</i>	deptford pink					SE5
* <i>Saponaria officinalis</i>	bouncing-bet					SE5
<i>Silene antirrhina</i>	sleepy catchfly			VU		S5
* <i>Silene vulgaris</i>	catchfly					SE5
<b>POLYGONACEAE</b>	<b>SMARTWEED FAMILY</b>					
<i>Polygonum cilinode</i>	fringed black bindweed					S5
<i>Polygonum pensylvanicum</i>	Pennsylvania smartweed					S5

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
* <i>Polygonum persicaria</i>	lady's-thumb					SE5
<i>Polygonum punctatum</i>	water smartweed					S5
<i>Polygonum tenue</i> var. <i>tenue</i>	slender knotweed			R		S2
<i>Polygonum virginianum</i>	Virginia knotweed					S4
* <i>Rumex acetosella</i> ssp. <i>acetosella</i>	sheep sorrel					SEU
* <i>Rumex crispus</i>	curly-leaf dock					SE5
<b>GUTTIFERAE</b>	<b>ST. JOHN'S-WORT FAMILY</b>					
<i>Hypericum gentianoides</i>	orange-grass			R		S1
<i>Hypericum majus</i>	larger Canadian St. John's-wort			VU		S5
* <i>Hypericum perforatum</i>	common St. John's-wort					SE5
<i>Hypericum prolificum</i>	shrubby St. John's-wort			R		S2
<i>Hypericum punctatum</i>	corymbed St. John's-wort					S5
<b>TILIACEAE</b>	<b>LINDEN FAMILY</b>					
<i>Tilia americana</i>	American basswood					S5
<b>MALVACEAE</b>	<b>MALLOW FAMILY</b>					
* <i>Abutilon theophrasti</i>	velvet-leaf					SE5
* <i>Hibiscus trionum</i>	flower-of-an-hour					SE4
<b>CISTACEAE</b>	<b>ROCK-ROSE FAMILY</b>					
<i>Helianthemum bicknellii</i>	Bicknell's frostweed			R		S4
<i>Helianthemum canadense</i>	long-branched frostweed			R		S4
<i>Lechea villosa</i>	hairy pinweed			R		S3
<b>VIOLACEAE</b>	<b>VIOLET FAMILY</b>					
<i>Viola conspersa</i>	American dog violet					S5
<i>Viola cucullata</i>	marsh blue violet			VU		S5
<i>Viola pubescens</i>	downy yellow violet					S5
<i>Viola sagittata</i> var. <i>ovata</i>	arrow-leaved violet			R		S4
<i>Viola sororia</i>	woolly blue violet					S5
<b>SALICACEAE</b>	<b>WILLOW FAMILY</b>					
* <i>Populus alba</i>	silver poplar					SE5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Populus balsamifera ssp. balsamifera</i>	balsam poplar			R		S5
<i>Populus deltoides ssp. deltoides</i>	eastern cottonwood					SU
<i>Populus grandidentata</i>	large-tooth aspen			U		S5
<i>Populus tremuloides</i>	trembling aspen					S5
* <i>Salix alba</i>	white willow					SE4
<i>Salix amygdaloides</i>	peach-leaved willow					S5
<i>Salix bebbiana</i>	long-beaked willow			VU		S5
<i>Salix candida</i>	hoary willow					S5
<i>Salix cordata</i>	heart-leaf willow					S4S5
<i>Salix discolor</i>	pussy willow					S5
<i>Salix eriocephala</i>	Missouri willow					S5
<i>Salix exigua</i>	sandbar willow					S5
* <i>Salix fragilis</i>	crack willow					SE5
<i>Salix humilis</i>	prairie willow			R		S5
<i>Salix lucida</i>	shining willow			R		S5
<i>Salix myricoides</i>	blue-leaved willow					S3
<i>Salix nigra</i>	black willow			U		S4?
<i>Salix pedicellaris</i>	bog willow					S5
* <i>Salix pentandra</i>	bay-leaved willow					SE2
<i>Salix petiolaris</i>	slender willow			R		S5
* <i>Salix purpurea</i>	basket willow					SE4
* <i>Salix X rubens</i>	hybrid crack willow					SE4
* <i>Salix X sepulcralis</i>	weeping willow					SE2
<b>BRASSICACEAE</b>	<b>MUSTARD FAMILY</b>					
* <i>Alliaria petiolata</i>	garlic mustard					SE5
* <i>Barbarea vulgaris</i>	yellow rocket					SE5
* <i>Berteroa incana</i>	hoary alyssum					SE5
* <i>Capsella bursa-pastoris</i>	shepherd's purse					SE5
<i>Cardamine bulbosa</i>	bulbous cress					S4

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Cardamine douglassii</i>	purple cress					S4
<i>Descurainia pinnata</i> ssp. <i>brachycarpa</i>	pinnate tansy-mustard					S4
* <i>Diplotaxis muralis</i>	wall-rocket					SE1
* <i>Erysimum asperum</i>	prairie rocket					SE1
* <i>Erysimum cheiranthoides</i> ssp. <i>cheiranthoides</i>	wormseed mustard					SE5
* <i>Hesperis matronalis</i>	dame's rocket					SE5
* <i>Lepidium campestre</i>	field cress					SE5
<i>Lepidium virginicum</i>	Virginia pepper-grass					S5
* <i>Sisymbrium altissimum</i>	tall tumble-mustard					SE5
* <i>Thlaspi arvense</i>	field penny-cress					SE5
<b>ERICACEAE</b>	<b>HEATH FAMILY</b>					
<i>Arctostaphylos uva-ursi</i>	common bearberry			R		S5
<i>Gaylussacia baccata</i>	black huckleberry			U		S4
<i>Vaccinium angustifolium</i>	low sweet blueberry			R		S5
<i>Vaccinium corymbosum</i>	highbush blueberry			R		S4
<i>Vaccinium pallidum</i>	pale blueberry					S4
<b>PRIMULACEAE</b>	<b>PRIMROSE FAMILY</b>					
* <i>Anagallis arvensis</i>	scarlet pimpernel					SE4
<i>Lysimachia ciliata</i>	fringed loosestrife					S5
* <i>Lysimachia nummularia</i>	moneywort					SE5
<i>Lysimachia quadriflora</i>	four-flowered loosestrife			R		S4
<i>Lysimachia terrestris</i>	swamp loosestrife			R		S5
<i>Lysimachia thyrsoiflora</i>	tufted loosestrife			R		S5
<b>GROSSULARIACEAE</b>	<b>GOOSEBERRY FAMILY</b>					
<i>Ribes americanum</i>	wild black currant					S5
<i>Ribes cynosbati</i>	prickly gooseberry					S5
<b>SAXIFRAGACEAE</b>	<b>SAXIFRAGE FAMILY</b>					
<i>Heuchera americana</i> var. <i>americana</i>	alum-root					S2
<i>Penthorum sedoides</i>	ditch stonecrop					S5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<b>ROSACEAE</b>	<b>ROSE FAMILY</b>					
<i>Agrimonia gryposepala</i>	tall hairy agrimony					S5
<i>Agrimonia parviflora</i>	many-flowered agrimony					S3S4
<i>Agrimonia pubescens</i>	hairy agrimony					S4
<i>Amelanchier alnifolia</i>	Saskatoon berry			R		S4?
<i>Amelanchier arborea</i>	downy juneberry			U		S5
<i>Amelanchier laevis</i>	smooth juneberry			VU		S5
<i>Amelanchier sanguinea</i>	roundleaf juneberry					S5?
<i>Amelanchier spicata</i>	low juneberry			R		S5?
<i>Aronia melanocarpa</i>	black chokeberry			U		S5
<i>Crataegus calpodendron</i>	urn-fruited hawthorn			R		S4S5
<i>Crataegus chrysocarpa</i>	round-leaved hawthorn			R		S5
<i>Crataegus crus-galli</i>	cockspur thorn					S5
<i>Crataegus dilatata</i>	Eggert's thorn			R		S1
<i>Crataegus dissona</i>	hawthorn			R		S3
<i>Crataegus holmesiana</i>	Holmes hawthorn			R		S4S5
<i>Crataegus macrosperma</i>	variable thorn			R		S5
<i>Crataegus mollis</i>	downy thorn					S5
<i>Crataegus pedicellata</i>	scarlet hawthorn			R		S4
<i>Crataegus persimilis</i>	bush's thorn			R		S1
<i>Crataegus pringlei</i>	Pringle's hawthorn			R		S5
<i>Crataegus pruinosa</i>	waxy-fruited thorn			U		S4?
<i>Crataegus punctata</i>	large-fruited thorn					S5
<i>Crataegus succulenta</i>	long-spined thorn			R		S4S5
* <i>Cydonia oblonga</i>	quince					SE1
<i>Fragaria virginiana</i> ssp. <i>virginiana</i>	scarlet strawberry					SU
<i>Geum aleppicum</i>	yellow avens			R		S5
<i>Geum canadense</i>	white avens					S5
<i>Geum laciniatum</i>	rough avens					S4

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Geum vernum</i>	spring avens					S3
<i>Malus coronaria</i>	narrow-leaved crabapple					S4
* <i>Malus pumila</i>	common crabapple					SE5
<i>Physocarpus opulifolius</i>	ninebark			R		S5
<i>Potentilla anserina ssp. anserina</i>	silverweed					S5
* <i>Potentilla norvegica ssp. monspeliensis</i>	rough cinquefoil					SU
* <i>Potentilla recta</i>	rough-fruited cinquefoil					SE5
<i>Potentilla simplex</i>	old-field cinquefoil					S5
<i>Prunus americana</i>	American plum			VU		S4
* <i>Prunus avium</i>	sweet cherry					SE4
* <i>Prunus domestica ssp. domestica</i>	damson plum					SE2
<i>Prunus nigra</i>	Canada plum			U		S4
<i>Prunus pensylvanica</i>	pin cherry			R		S5
<i>Prunus pumila var. pumila</i>	sand cherry			R		S4?
<i>Prunus serotina</i>	black cherry					S5
<i>Prunus virginiana ssp. virginiana</i>	choke cherry					S5
* <i>Pyrus communis</i>	common pear					SE4
<i>Rosa blanda</i>	smooth rose					S5
* <i>Rosa canina</i>	canker rose					SE2
<i>Rosa carolina</i>	swamp rose					S4
* <i>Rosa multiflora</i>	multiflora rose					SE4
<i>Rosa palustris</i>	marsh rose					S5
* <i>Rosa rugosa</i>	wrinkled rose					SE1
<i>Rosa setigera</i>	prairie rose	SC	SC		SARA(1)	S3
<i>Rosa virginiana</i>	low rose					SU
<i>Rubus allegheniensis</i>	common blackberry					S5
<i>Rubus canadensis</i>	smooth blackberry			R		S4?
<i>Rubus flagellaris</i>	prickly raspberry					S4
<i>Rubus hispida</i>	trailing blackberry					S4S5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Rubus idaeus ssp. melanolasius</i>	wild red raspberry					S5
<i>Rubus occidentalis</i>	thimble-berry					S5
<i>Rubus odoratus</i>	purple flowering raspberry					S5
<i>Rubus pensilvanicus</i>	Pennsylvania raspberry			VU		SU
<i>Rubus pubescens</i>	dwarf raspberry			VU		S5
<i>Sorbus americana</i>	American mountain-ash					S5
* <i>Sorbus aucuparia</i>	European mountain-ash					SE4
<i>Sorbus decora</i>	showy mountain-ash					S5
<i>Spiraea alba</i>	narrow-leaved meadow-sweet					S5
<i>Spiraea tomentosa</i>	tomentose meadow-sweet			R		S4S5
<b>FABACEAE</b>	<b>PEA FAMILY</b>					
<i>Amorpha fruticosa</i>	shrubby false-indigo			R		S1
<i>Amphicarpaea bracteata</i>	hog peanut					S5
<i>Apios americana</i>	groundnut					S5
<i>Baptisia tinctoria</i>	wild indigo			R		S2
<i>Cercis canadensis</i>	Canadian redbud					SX
<i>Desmodium canadense</i>	Canadian tick-trefoil					S4
<i>Gleditsia triacanthos</i>	honey locust					S2
<i>Gymnocladus dioicus</i>	Kentucky coffee-tree	THR	THR	VU	SARA(1), PPS	S2
<i>Lathyrus palustris</i>	marsh vetchling			U		S5
* <i>Lathyrus tuberosus</i>	tuberous vetchling					SE3
<i>Lespedeza capitata</i>	round-headed bush-clover			VU		S4
<i>Lespedeza hirta</i>	hairy bush-clover			R		S4
<i>Lespedeza intermedia</i>	intermediate bush-clover			R		S4
<i>Lespedeza virginica</i>	slender bush-clover	END	END	R	SARA(1), ESA, PPS	S1
<i>Lupinus perennis ssp. perennis</i>	wild lupine			R		S3
* <i>Medicago lupulina</i>	black medick					SE5
* <i>Medicago sativa ssp. sativa</i>	alfalfa					SE5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
* <i>Melilotus alba</i>	white sweet-clover					SE5
* <i>Melilotus officinalis</i>	yellow sweet-clover					SE5
* <i>Robinia pseudo-acacia</i>	black locust					SE5
<i>Strophostyles helvola</i>	trailing wild bean					S3
* <i>Trifolium pratense</i>	red clover					SE5
* <i>Trifolium repens</i>	white clover					SE5
* <i>Vicia cracca</i>	tufted vetch					SE5
* <i>Vicia villosa</i>	hairy vetch					SE5
<b>ELAEAGNACEAE</b>	<b>OLEASTER FAMILY</b>					
* <i>Elaeagnus umbellata</i>	Russian olive					SE3
<i>Shepherdia canadensis</i>	Canada soapberry			R		S5
<b>LYTHRACEAE</b>	<b>LOOSESTRIFE FAMILY</b>					
<i>Ammannia robusta</i>	long-leaved ammannia			R		S1
<i>Lythrum alatum</i>	wing-angled loosestrife					S3
* <i>Lythrum salicaria</i>	purple loosestrife					SE5
<b>THYMELAEACEAE</b>	<b>MEZEREUM FAMILY</b>					
<i>Dirca palustris</i>	leatherwood			R		S4?
<b>ONAGRACEAE</b>	<b>EVENING-PRIMROSE FAMILY</b>					
<i>Circaea lutetiana ssp. canadensis</i>	yellowish enchanter's nightshade					S5
<i>Epilobium ciliatum ssp. ciliatum</i>	ciliate willow-herb			R		S5
<i>Epilobium coloratum</i>	purple-veined willow-herb					S5
<i>Gaura biennis</i>	biennial gaura			U		S2
<i>Ludwigia alternifolia</i>	rattle-box			R		S1
<i>Ludwigia polycarpa</i>	many-fruited false loosestrife			U		S2
<i>Oenothera biennis</i>	common evening-primrose					S5
<i>Oenothera parviflora</i>	small-flowered evening-primrose					S5?
<b>CORNACEAE</b>	<b>DOGWOOD FAMILY</b>					
<i>Cornus alternifolia</i>	alternate-leaved dogwood			R		S5
<i>Cornus amomum ssp. obliqua</i>	silky dogwood					S5



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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Cornus drummondii</i>	Drummond's dogwood					S4
<i>Cornus florida</i>	eastern flowering dogwood					S4
<i>Cornus foemina</i> ssp. <i>racemosa</i>	gray dogwood					S5
<i>Cornus stolonifera</i>	red-osier dogwood					S5
<i>Nyssa sylvatica</i>	black gum					S3
<b>SANTALACEAE</b>	<b>SANDALWOOD FAMILY</b>					
<i>Comandra umbellata</i>	bastard toad-flax					S5
<b>CELASTRACEAE</b>	<b>STAFF-TREE FAMILY</b>					
<i>Celastrus scandens</i>	climbing bittersweet					S5
<i>Euonymus atropurpurea</i> var. <i>atropurpurea</i>	burning bush					S3
* <i>Euonymus europaea</i>	spindle tree					SE2
* <i>Euonymus fortunei</i>	euonymus					SE1
<i>Euonymus obovata</i>	running strawberry-bush					S5
<b>AQUIFOLIACEAE</b>	<b>HOLLY FAMILY</b>					
<i>Ilex verticillata</i>	winterberry					S5
<b>EUPHORBIACEAE</b>	<b>SPURGE FAMILY</b>					
<i>Acalypha virginica</i> var. <i>rhomboidea</i>	three-seeded mercury					S5
<i>Chamaesyce vermiculata</i>	hairy spurge			R		S5
<i>Euphorbia corollata</i>	flowering spurge			VU		S4
<b>RHAMNACEAE</b>	<b>BUCKTHORN FAMILY</b>					
<i>Ceanothus americanus</i>	New Jersey tea			VU		S4
<i>Ceanothus herbaceus</i>	narrow-leaved New Jersey tea			R		S4
* <i>Rhamnus cathartica</i>	common buckthorn					SE5
* <i>Rhamnus frangula</i>	glossy buckthorn					SE5
<b>VITACEAE</b>	<b>GRAPE FAMILY</b>					
<i>Parthenocissus inserta</i>	inserted Virginia-creeper					S5
<i>Parthenocissus quinquefolia</i>	five-leaved Virginia-creeper					S4?
<i>Vitis aestivalis</i>	summer grape			U		S4
<i>Vitis riparia</i>	riverbank grape					S5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<b>POLYGALACEAE</b>	<b>MILKWORT FAMILY</b>					
<i>Polygala sanguinea</i>	blood-red milkwort			R		S4
<i>Polygala verticillata</i>	whorled milkwort			VU		S4
<b>STAPHYLEACEAE</b>	<b>BLADDER-NUT FAMILY</b>					
<i>Staphylea trifolia</i>	American bladder-nut					S4
<b>HIPPOCASTANACEAE</b>	<b>BUCKEYE FAMILY</b>					
* <i>Aesculus hippocastanum</i>	horse chestnut					SE2
<b>ACERACEAE</b>	<b>MAPLE FAMILY</b>					
<i>Acer negundo</i>	Manitoba maple					S5
* <i>Acer platanoides</i>	Norway maple					SE5
<i>Acer rubrum</i>	red maple					S5
<i>Acer saccharinum</i>	silver maple					S5
<i>Acer saccharum ssp. nigrum</i>	black maple			U		S4?
<i>Acer saccharum ssp. saccharum</i>	sugar maple					S5
<i>Acer X freemanii</i>	freeman's maple					
<b>ANACARDIACEAE</b>	<b>SUMAC FAMILY</b>					
* <i>Cotinus coggygria</i>	smoke-tree					SE1
<i>Rhus aromatica</i>	fragrant sumac			VU		S5
<i>Rhus copallina var. latifolia</i>	shining sumac			R		S3S4
<i>Rhus glabra</i>	smooth sumac			U		S5
<i>Rhus radicans ssp. negundo</i>	poison-ivy					S5
<i>Rhus typhina</i>	staghorn sumac					S5
<b>SIMAROUBACEAE</b>	<b>AILANTHUS FAMILY</b>					
* <i>Ailanthus altissima</i>	tree-of-heaven					SE5
<b>RUTACEAE</b>	<b>RUE FAMILY</b>					
<i>Ptelea trifoliata</i>	common hop-tree	THR	THR	U	SARA(1), PPS	S3
<i>Zanthoxylum americanum</i>	American prickly-ash					S5
<b>OXALIDACEAE</b>	<b>WOOD SORREL FAMILY</b>					
<i>Oxalis stricta</i>	upright yellow wood-sorrel					S5

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<b>GERANIACEAE</b>	<b>GERANIUM FAMILY</b>					
<i>Geranium maculatum</i>	spotted crane's-bill					S5
* <i>Geranium robertianum</i>	herb-Robert					SE5
<b>LIMNANTHACEAE</b>	<b>MEADOW-FOAM FAMILY</b>					
<i>Floerkea proserpinacoides</i>	false mermaid					S4
<b>BALSAMINACEAE</b>	<b>TOUCH-ME-NOT FAMILY</b>					
<i>Impatiens capensis</i>	spotted touch-me-not					S5
<b>ARALIACEAE</b>	<b>GINSENG FAMILY</b>					
<i>Aralia nudicaulis</i>	wild sarsaparilla					S5
<b>APIACEAE</b>	<b>PARSLEY FAMILY</b>					
<i>Cicuta maculata</i>	spotted water-hemlock					S5
<i>Cryptotaenia canadensis</i>	honestwort					S5
* <i>Daucus carota</i>	wild carrot					SE5
<i>Heraclium lanatum</i>	cow-parsnip			R		S5
<i>Osmorhiza longistylis</i>	anise-root					S5
<i>Oxypolis rigidior</i>	cowbane			U		S2
* <i>Pastinaca sativa</i>	wild parsnip					SE5
<i>Sanicula canadensis var. canadensis</i>	Canada snakeroot					S4
<i>Sanicula marilandica</i>	black snakeroot					S5
<i>Sanicula odorata</i>	clustered snakeroot					S5
<i>Taenidia integerrima</i>	yellow pimpernel			U		S4
<i>Zizia aurea</i>	golden alexanders			VU		S5
<b>GENTIANACEAE</b>	<b>GENTIAN FAMILY</b>					
* <i>Centaurium pulchellum</i>	branching centaury					SE3
<i>Gentiana andrewsii</i>	closed gentian			U		S4
<i>Gentianopsis crinita</i>	fringed gentian			R		S5
<b>APOCYNACEAE</b>	<b>DOGBANE FAMILY</b>					
<i>Apocynum androsaemifolium ssp. androsaemifolium</i>	spreading dogbane					S5

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Apocynum cannabinum</i> var. <i>cannabinum</i>	Indian hemp					S5
<b>ASCLEPIADACEAE</b>	<b>MILKWEED FAMILY</b>					
<i>Asclepias incarnata</i> ssp. <i>incarnata</i>	swamp milkweed					S5
<i>Asclepias purpurascens</i>	purple milkweed			R		S2
<i>Asclepias sullivantii</i>	Sullivant's milkweed			R		S2
<i>Asclepias syriaca</i>	common milkweed					S5
<i>Asclepias tuberosa</i>	butterfly-weed			U		S4
<b>SOLANACEAE</b>	<b>POTATO FAMILY</b>					
<i>Physalis heterophylla</i>	clammy ground-cherry					S4
* <i>Solanum dulcamara</i>	bitter nightshade					SE5
<i>Solanum ptychanthum</i>	eastern black nightshade					S5
<b>CONVOLVULACEAE</b>	<b>MORNING-GLORY FAMILY</b>					
<i>Calystegia sepium</i> ssp. <i>americanum</i>	hedge bindweed					SU
* <i>Convolvulus arvensis</i>	field bindweed					SE5
<b>POLEMONIACEAE</b>	<b>PHLOX FAMILY</b>					
<i>Phlox divaricata</i>	wild blue phlox					S4
* <i>Phlox paniculata</i>	garden phlox					SE2
<b>BORAGINACEAE</b>	<b>BORAGE FAMILY</b>					
* <i>Echium vulgare</i>	blueweed					SE5
<i>Hackelia virginiana</i>	Virginia stickweed					S5
<i>Lithospermum canescens</i>	hoary puccoon			R		S3?
<i>Myosotis verna</i>	spring forget-me-not			R		S4?
<b>VERBENACEAE</b>	<b>VERVAIN FAMILY</b>					
<i>Verbena hastata</i>	blue vervain					S5
<i>Verbena stricta</i>	hoary vervain			R		S4
<i>Verbena urticifolia</i>	white vervain					S5
<b>LAMIACEAE</b>	<b>MINT FAMILY</b>					
<i>Clinopodium vulgare</i>	wild basil			U		S5
* <i>Glechoma hederacea</i>	creeping Charlie					SE5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
* <i>Leonurus cardiaca</i> ssp. <i>cardiaca</i>	common motherwort					SE5
<i>Lycopus americanus</i>	cut-leaved water-horehound					S5
<i>Lycopus uniflorus</i>	northern water-horehound					S5
<i>Mentha arvensis</i> ssp. <i>borealis</i>	American wild mint					S5
<i>Monarda fistulosa</i>	wild bergamot					S5
* <i>Nepeta cataria</i>	catnip					SE5
<i>Physostegia virginiana</i> ssp. <i>virginiana</i>	Virginia false dragonhead			R		S4
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	heal-all					S5
<i>Pycnanthemum virginianum</i>	Virginia mountain-mint					S4
<i>Scutellaria lateriflora</i>	mad-dog skullcap					S5
<i>Stachys hispida</i>	rough hedge-nettle					S4S5
<i>Teucrium canadense</i> ssp. <i>viscidum</i>	wood germander					SU
<b>PLANTAGINACEAE</b>	<b>PLANTAIN FAMILY</b>					
* <i>Plantago lanceolata</i>	ribgrass					SE5
* <i>Plantago major</i>	common plantain					SE5
<b>OLEACEAE</b>	<b>OLIVE FAMILY</b>					
<i>Fraxinus americana</i>	white ash					S5
<i>Fraxinus nigra</i>	black ash					S5
<i>Fraxinus pennsylvanica</i>	red ash					S5
<i>Fraxinus profunda</i>	pumpkin ash			VU		S2
<i>Fraxinus quadrangulata</i>	blue ash	SC	SC	VU	SARA(1)	S3
* <i>Ligustrum vulgare</i>	common privet					SE5
* <i>Syringa vulgaris</i>	common lilac					SE5
<b>SCROPHULARIACEAE</b>	<b>FIGWORT FAMILY</b>					
<i>Agalinis purpurea</i>	large purple agalinis			R		S1
<i>Agalinis tenuifolia</i> var. <i>macrophylla</i>	slender-leaved agalinis			VU		S1?
<i>Aureolaria flava</i>	yellow false foxglove			R		S3
<i>Aureolaria virginica</i>	smooth yellow false foxglove					S1
* <i>Linaria vulgaris</i>	butter-and-eggs					SE5

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<i>Lindernia dubia</i> var. <i>dubia</i>	doubtful false pimpernel					S4
<i>Mimulus ringens</i>	square-stemmed monkey-flower					S5
<i>Pedicularis canadensis</i>	Canada wood-betony			U		S5
<i>Pedicularis lanceolata</i>	swamp wood-betony			VU		S4
<i>Penstemon digitalis</i>	foxglove beard-tongue			VU		S4S5
<i>Penstemon hirsutus</i>	hairy beard-tongue					S4
* <i>Verbascum blattaria</i>	moth mullein					SE5
* <i>Verbascum thapsus</i>	common mullein					SE5
<i>Veronica peregrina</i> ssp. <i>peregrina</i>	purslane speedwell					S5
<i>Veronica scutellata</i>	marsh speedwell			R		S5
<i>Veronicastrum virginicum</i>	Virginia culver's-root			VU		S2
<b>OROBANCHACEAE</b>	<b>BROOM-RAPE FAMILY</b>					
<i>Orobanche uniflora</i>	one-flowered broom-rape			R		S4
<b>BIGNONIACEAE</b>	<b>TRUMPET-CREEPER FAMILY</b>					
* <i>Campsis radicans</i>	trumpet creeper			VU		S2
* <i>Catalpa bignonioides</i>	common catalpa					SE1
<b>CAMPANULACEAE</b>	<b>BLUEBELL FAMILY</b>					
<i>Campanula americana</i>	tall bellflower					S4
* <i>Campanula rapunculoides</i>	creeping bellflower					SE5
<i>Lobelia cardinalis</i>	cardinal-flower			U		S5
<i>Lobelia inflata</i>	Indian tobacco			U		S5
<i>Lobelia siphilitica</i>	great lobelia					S5
<i>Lobelia spicata</i>	pale-spiked lobelia			VU		S4
<b>RUBIACEAE</b>	<b>MADDER FAMILY</b>					
<i>Cephalanthus occidentalis</i>	eastern buttonbush					S5
<i>Galium aparine</i>	cleavers					S5
<i>Galium circaezans</i>	white wild licorice					S5
<i>Galium obtusum</i>	blunt-leaved bedstraw					S4S5

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<b>CAPRIFOLIACEAE</b>	<b>HONEYSUCKLE FAMILY</b>					
<i>Diervilla lonicera</i>	bush honeysuckle			R		S5
<i>Lonicera canadensis</i>	American fly honeysuckle			R		S5
<i>Lonicera dioica</i>	glaucous honeysuckle					S5
* <i>Lonicera japonica</i>	Japanese honeysuckle					SE2
* <i>Lonicera tatarica</i>	Tartarian honeysuckle					SE5
<i>Sambucus canadensis</i>	common elderberry					S5
<i>Sambucus racemosa ssp. pubens</i>	red-berried elderberry			R		S5
<i>Symphoricarpos albus</i>	snowberry			R		S5
<i>Triosteum aurantiacum</i>	wild coffee			VU		S5
<i>Triosteum perfoliatum</i>	tinker's-weed					S1
<i>Viburnum acerifolium</i>	maple-leaved viburnum					S5
* <i>Viburnum lantana</i>	bending wayfaring-tree					SE2
<i>Viburnum lentago</i>	nannyberry					S5
* <i>Viburnum opulus</i>	guelder rose					SE4
<i>Viburnum rafinesquianum</i>	downy arrow-wood					S5
<i>Viburnum recognitum</i>	southern arrow-wood					S4
<i>Viburnum trilobum</i>	high bush cranberry			U		S5
<b>DIPSACACEAE</b>	<b>TEASEL FAMILY</b>					
* <i>Dipsacus fullonum ssp. sylvestris</i>	wild teasel					SE5
<b>ASTERACEAE</b>	<b>ASTER FAMILY</b>					
* <i>Achillea millefolium ssp. millefolium</i>	common yarrow					SE?
<i>Ambrosia artemisiifolia</i>	common ragweed					S5
<i>Ambrosia trifida</i>	giant ragweed					S5
<i>Antennaria neglecta</i>	field pussytoes			R		S5
<i>Antennaria parlinii ssp. fallax</i>	Parlin's pussytoes					SU
* <i>Arctium lappa</i>	great burdock					SE5
* <i>Arctium minus ssp. minus</i>	common burdock					SE5
* <i>Artemisia vulgaris</i>	common mugwort					SE5

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Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Aster ericoides</i> ssp. <i>ericoides</i>	white heath aster					S5
<i>Aster laevis</i> var. <i>laevis</i>	smooth blue aster			U		S5
<i>Aster lanceolatus</i> ssp. <i>lanceolatus</i>	tall white aster					S5
<i>Aster lateriflorus</i> var. <i>lateriflorus</i>	calico aster					S5
<i>Aster macrophyllus</i>	large-leaved aster					S5
<i>Aster novae-angliae</i>	New England aster					S5
<i>Aster pilosus</i> var. <i>pilosus</i>	hairy aster					S5
<i>Aster praealtus</i> var. <i>praealtus</i>	willow aster			R		S2
<i>Aster umbellatus</i> var. <i>umbellatus</i>	flat-top white aster			R		S5
<i>Aster urophyllus</i>	arrow-leaved aster					S4
<i>Aster X amethystinus</i>	amethyst aster			R		S3?
* <i>Bidens aristosa</i>	western tickseed-sunflower					SE1
<i>Bidens frondosa</i>	devil's beggar-ticks					S5
<i>Bidens tripartita</i>	European beggar-ticks					S5
<i>Bidens vulgata</i>	tall beggar-ticks					S5
* <i>Centaurea maculosa</i>	spotted knapweed					SE5
* <i>Chrysanthemum leucanthemum</i>	ox-eye daisy					SE5
* <i>Cichorium intybus</i>	chicory					SE5
* <i>Cirsium arvense</i>	Canada thistle					SE5
<i>Cirsium discolor</i>	field thistle			U		S4
<i>Cirsium muticum</i>	swamp thistle			R		S5
* <i>Cirsium vulgare</i>	bull thistle					SE5
<i>Conyza canadensis</i>	horseweed					S5
<i>Coreopsis tripteris</i>	tall tickseed			U		S2
* <i>Crepis tectorum</i>	narrow-leaved hawk's beard					SE5
<i>Erechtites hieracifolia</i>	fire-weed					S5
<i>Erigeron philadelphicus</i> ssp. <i>philadelphicus</i>	Philadelphia fleabane					S5
<i>Erigeron pulchellus</i>	robin's plantain			R		S5
<i>Erigeron strigosus</i>	daisy fleabane					S5



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<i>Eupatorium maculatum</i> ssp. <i>maculatum</i>	spotted joe-pye-weed					S5
<i>Eupatorium perfoliatum</i>	perfoliate thoroughwort					S5
<i>Eupatorium purpureum</i> var. <i>purpureum</i>	purple joe-pye-weed			VU		S3
<i>Eupatorium rugosum</i>	white snakeroot					S5
<i>Euthamia graminifolia</i>	flat-topped bushy goldenrod					S5
<i>Euthamia gymnospermoides</i>	viscid bushy goldenrod			R		S1
<i>Helenium autumnale</i>	common sneezeweed			U		S5
<i>Helianthus decapetalus</i>	thin-leaved sunflower			VU		S5
<i>Helianthus divaricatus</i>	rough woodland sunflower					S5
<i>Helianthus giganteus</i>	tall wild sunflower					S5
<i>Helianthus strumosus</i>	pale-leaved wood sunflower			VU		S5
* <i>Helianthus tuberosus</i>	Jerusalem artichoke					SE5
* <i>Hieracium aurantiacum</i>	devil's paintbrush					SE5
<i>Krigia biflora</i> var. <i>biflora</i>	two-flowered Cynthia			U		S2
<i>Lactuca biennis</i>	biennial lettuce			VU		S5
<i>Lactuca canadensis</i>	tall lettuce					S5
* <i>Lactuca serriola</i>	prickly lettuce					SE5
<i>Liatris spicata</i>	spiked blazing star	THR	THR	VU	SARA(1), PPS	S3
<i>Prenanthes altissima</i>	tall white rattlesnake-root			VU		S5
<i>Prenanthes racemosa</i> ssp. <i>racemosa</i>	glaucous white rattlesnake-root			R		SU
<i>Ratibida pinnata</i>	gray-headed coneflower			U		S2S3
<i>Rudbeckia hirta</i>	black-eyed Susan					S5
<i>Senecio pauperculus</i>	balsam groundsel			VU		S5
<i>Silphium laciniatum</i> var. <i>laciniatum</i>	compass-plant					S1
<i>Silphium terebinthinaceum</i> var. <i>terebinthinaceum</i>	prairie dock			VU		S1
<i>Solidago altissima</i> var. <i>altissima</i>	tall goldenrod					S5
<i>Solidago bicolor</i>	white goldenrod			VU		S4?
<i>Solidago canadensis</i>	Canada goldenrod					S5

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<i>Solidago gigantea</i>	giant goldenrod			VU		S5
<i>Solidago juncea</i>	early goldenrod			U		S5
<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>	gray goldenrod					S5
<i>Solidago riddellii</i>	Riddell's goldenrod			VU		S2S3
<i>Solidago rigida</i> ssp. <i>rigida</i>	stiff-leaved goldenrod			U		S3
<i>Solidago rugosa</i> ssp. <i>rugosa</i>	rough goldenrod					S5
* <i>Solidago sempervirens</i>	seaside goldenrod					SE2
* <i>Sonchus arvensis</i> ssp. <i>uliginosus</i>	perennial sow-thistle					SE5
* <i>Taraxacum officinale</i>	common dandelion					SE5
* <i>Tragopogon dubius</i>	doubtful goat's-beard					SE5
<i>Vernonia gigantea</i>	ironweed					S3
<i>Xanthium strumarium</i>	tumor-curing cocklebur					S5
<b>BUTOMACEAE</b>	<b>FLOWERING RUSH FAMILY</b>					
* <i>Butomus umbellatus</i>	flowering-rush					SE5
<b>ALISMATACEAE</b>	<b>WATER-PLANTAIN FAMILY</b>					
<i>Alisma plantago-aquatica</i>	common water-plantain					S5
<i>Sagittaria latifolia</i>	broad-leaved arrowhead					S5
<b>HYDROCHARITACEAE</b>	<b>FROG'S-BIT FAMILY</b>					
<i>Elodea nuttallii</i>	Nuttall's waterweed			R		S4
<b>ARACEAE</b>	<b>ARUM FAMILY</b>					
<i>Arisaema triphyllum</i> ssp. <i>triphyllum</i>	small jack-in-the-pulpit					S5
<i>Symplocarpus foetidus</i>	skunk-cabbage			R		S5
<b>LEMNACEAE</b>	<b>DUCKWEED FAMILY</b>					
<i>Lemna minor</i>	lesser duckweed					S5
<b>COMMELINACEAE</b>	<b>SPIDERWORT FAMILY</b>					
* <i>Commelina communis</i>	Asiatic day-flower					SE3
<i>Tradescantia ohioensis</i>	Ohio spiderwort			VU		S2
<b>JUNCACEAE</b>	<b>RUSH FAMILY</b>					
<i>Juncus biflorus</i>	two-flowered rush			R		S1

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<i>Juncus brachycarpus</i>	short-fruited rush			R		S1
<i>Juncus dudleyi</i>	Dudley's rush					S5
<i>Juncus effusus</i> ssp. <i>solutus</i>	soft rush					S5
<i>Juncus greenei</i>	Greene's rush			R		S3
<i>Juncus marginatus</i>	grass-leaved rush			R		S2
<i>Juncus tenuis</i>	path rush					S5
<i>Juncus torreyi</i>	Torrey's rush					S5
<i>Luzula multiflora</i> ssp. <i>multiflora</i>	woodrush			U		S5
<b>CYPERACEAE</b>	<b>SEDGE FAMILY</b>					
<i>Carex aquatilis</i>	aquatic sedge					S5
<i>Carex blanda</i>	woodland sedge					S5
<i>Carex conoidea</i>	field sedge			R		S3
<i>Carex cristatella</i>	crested sedge					S5
<i>Carex granularis</i>	meadow sedge					S5
<i>Carex hyalinolepis</i>	hyaline-scaled sedge					S4
<i>Carex lacustris</i>	lake-bank sedge					S5
<i>Carex pennsylvanica</i>	Pennsylvania sedge					S5
<i>Carex radiata</i>	radiate sedge					S5
<i>Carex rosea</i>	stellate sedge					S5
<i>Carex stricta</i>	tussock sedge					S5
<i>Carex suberecta</i>	prairie straw sedge			VU		S2
<i>Carex tenera</i>	straw sedge					S5
<i>Carex viridula</i> ssp. <i>viridula</i>	greenish sedge			R		S5
<i>Carex vulpinoidea</i>	fox sedge					S5
<i>Cyperus bipartitus</i>	umbrella sedge			U		S5
<i>Cyperus strigosus</i>	straw-colored umbrella sedge					S5
<i>Rhynchospora capitellata</i>	small-headed beaked-rush			R		S4
<i>Scirpus atrovirens</i>	dark-green bulrush					S5
<i>Scirpus pendulus</i>	lined bulrush					S5

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<i>Scleria triglomerata</i>	tall nut-rush			R		S1
<b>POACEAE</b>	<b>GRASS FAMILY</b>					
* <i>Agrostis gigantea</i>	red-top					SE5
<i>Andropogon gerardii</i>	big bluestem			U		S4
<i>Andropogon virginicus</i>	Virginia broom-sedge			VU		S4
<i>Aristida longespica</i> var. <i>longespica</i>	long-spiked triple-awned grass			R		S2
<i>Aristida purpurascens</i> var. <i>purpurascens</i>	arrow-feather three-awn			R		S1
* <i>Bromus inermis</i> ssp. <i>inermis</i>	awnless brome					SE5
<i>Calamagrostis canadensis</i>	blue-joint grass					S5
<i>Cenchrus longispinus</i>	field sandbur			U		S4
* <i>Dactylis glomerata</i>	orchard grass					SE5
<i>Danthonia spicata</i>	poverty oat grass					S5
* <i>Echinochloa crusgalli</i>	common barnyard grass					SE5
<i>Elymus canadensis</i>	nodding wild rye			VU		S4S5
* <i>Elymus repens</i>	quack grass					SE5
<i>Elymus riparius</i>	river-bank wild rye			R		S4?
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia wild rye					S5
* <i>Eragrostis pectinacea</i> var. <i>miserrima</i>	tufted love grass					SE1
<i>Eragrostis spectabilis</i>	purple love grass			R		S2
<i>Glyceria striata</i>	fowl meadow grass					S5
<i>Hierochloa odorata</i> ssp. <i>odorata</i>	sweet grass					S4
* <i>Hordeum jubatum</i> ssp. <i>jubatum</i>	squirrel-tail grass					SE5
<i>Leersia virginica</i>	white cut grass					S4
<i>Panicum acuminatum</i> var. <i>acuminatum</i>	acuminate panic grass					S5
<i>Panicum capillare</i>	witch grass					S5
* <i>Panicum dichotomiflorum</i>	fall panicum					SE5
<i>Panicum latifolium</i>	broad-leaved panic grass			U		S4
<i>Panicum virgatum</i>	switch grass			U		S4
<i>Phalaris arundinacea</i>	reed canary grass					S5

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
* <i>Phleum pratense</i>	timothy					SE5
<i>Phragmites australis</i>	common reed					S5
<i>Poa compressa</i>	Canada blue grass					S5
<i>Poa pratensis</i> ssp. <i>pratensis</i>	Kentucky bluegrass					S5
<i>Schizachyrium scoparium</i>	little bluestem			U		S4
* <i>Setaria pumila</i>	yellow foxtail					SE5
* <i>Setaria verticillata</i>	whorled foxtail					SE4
* <i>Setaria viridis</i>	green foxtail					SE5
<i>Sorghastrum nutans</i>	Indian grass			R		S4
* <i>Spartina patens</i>	salt marsh grass					SE1
<i>Spartina pectinata</i>	tall cord grass			U		S4
<i>Sporobolus asper</i>	tall dropseed			U		S1S2
<i>Sporobolus vaginiflorus</i>	ensheathed dropseed			U		S4
* <i>Tridens flavus</i>	purpletop					SE1
<b>TYPHACEAE</b>	<b>CAT-TAIL FAMILY</b>					
<i>Typha angustifolia</i>	narrow-leaved cattail					S5
<b>LILIACEAE</b>	<b>LILY FAMILY</b>					
<i>Aletris farinosa</i>	colicroot	THR	THR	R	SARA(1), PPS	S2
<i>Allium canadense</i> var. <i>canadense</i>	Canada wild onion					S5
* <i>Asparagus officinalis</i>	garden asparagus					SE5
* <i>Convallaria majalis</i>	lily-of-the-valley					SE5
<i>Erythronium americanum</i> ssp. <i>americanum</i>	yellow trout lily					S5
* <i>Hemerocallis fulva</i>	orange day-lily					SE5
<i>Hypoxis hirsuta</i>	yellow star-grass			R		S3
<i>Lilium michiganense</i>	Michigan lily					S5
<i>Lilium philadelphicum</i>	wood lily			R		S5
<i>Maianthemum canadense</i>	wild lily-of-the-valley					S5
<i>Maianthemum racemosum</i> ssp. <i>racemosum</i>	false Solomon's seal					S5
<i>Maianthemum stellatum</i>	star-flowered Solomon's seal					S5

**APPENDIX A. WORKING VASCULAR PLANT CHECKLIST**

Scientific Name	Common Name	COSEWIC	OMNR	Local Status <sup>1</sup>	Legal Status	SRank
<i>Polygonatum biflorum</i>	Solomon's seal					S4
<i>Polygonatum pubescens</i>	hairy Solomon's seal					S5
<i>Trillium grandiflorum</i>	white trillium					S5
<i>Uvularia sessilifolia</i>	sessile-leaved bellwort			U		S4
<b>IRIDACEAE</b>	<b>IRIS FAMILY</b>					
<i>Iris versicolor</i>	multi-coloured blue-flag					S5
<i>Iris virginica</i>	southern blue-flag					S5
<i>Sisyrinchium albidum</i>	white blue-eyed-grass			R		S1
<i>Sisyrinchium angustifolium</i>	pointed blue-eyed-grass					S4
<b>SMILACACEAE</b>	<b>CATBRIER FAMILY</b>					
<i>Smilax ecirrhata</i>	upright carrion flower					S3?
<i>Smilax herbacea</i>	herbaceous carrion flower			R		S4
<i>Smilax hispida</i>	bristly greenbrier					S4
<i>Smilax illinoensis</i>	Illinois carrion flower			U		S2?
<i>Smilax lasioneura</i>	hairy-nerved carrion flower					S4
<b>ORCHIDACEAE</b>	<b>ORCHID FAMILY</b>					
<i>Cypripedium calceolus var. pubescens</i>	large yellow lady's slipper			U		S5
* <i>Epipactis helleborine</i>	common helleborine					SE5
<i>Liparis liliifolia</i>	lily-leaved twayblade	END	END	R	SARA(1), PPS	S2
<i>Liparis loeselii</i>	fen twayblade			U		S4S5
<i>Platanthera flava var. herbiola</i>	tubercled orchid			R		S3
<i>Platanthera leucophaea</i>	prairie white-fringed orchid	END	END	R	SARA(1), PPS	S2
<i>Spiranthes cernua</i>	nodding ladies' tresses			U		S5
<i>Spiranthes magnicamporum</i>	great plains ladies' tresses			U		S3

## APPENDIX A LEGEND

\*Introduced species

### COSEWIC (Committee on the Status of Endangered Wildlife in Canada):

END Endangered  
THR Threatened  
SC Special Concern

### Provincial:

S1 Extremely Rare  
S2 Very Rare  
S3 Rare to Uncommon  
S4 Common  
S5 Very Common  
SE Exotic  
SU Unrankable, more data needed

### OMNR (Ontario Ministry of Natural Resources):

END Endangered  
THR Threatened  
SC Special Concern

### Legal Status:

SARA *Species at Risk Act* – Schedules (1), (2), (3)  
ESA *Endangered Species Act*  
PPS Species afforded habitat protection under the Provincial Policy Statement of the *Planning Act*

### Local Status (after Oldham 1999):

U Uncommon  
VU Very Uncommon  
R Rare