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APPENDICES

DRAFT

APPENDIX A

Species Rank

GRANK Global Rank

Global ranks are assigned by a consensus of the network of Conservation Data Centres, scientific experts, and The Nature Conservancy to designate a rarity rank based on the range-wide status of a species, subspecies or variety.

The most important factors considered in assigning global ranks are the total number of known, extant sites world-wide, and the degree to which they are potentially or actively threatened with destruction. Other criteria include the number of known populations considered to be securely protected, the size of the various populations, and the ability of the taxon to persist at its known sites. The taxonomic distinctness of each taxon has also been considered. Hybrids, introduced species, and taxonomically dubious species, subspecies and varieties have not been included.

G1	Extremely rare; usually 5 or fewer occurrences in the overall range or very few remaining individuals; or because of some factor(s) making it especially vulnerable to extinction.
G2	Very rare; usually between 5 and 20 occurrences in the overall range or with many individuals in fewer occurrences; or because of some factor(s) making it vulnerable to extinction.
G3	Rare to uncommon; usually between 20 and 100 occurrences; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.
G4	Common; usually more than 100 occurrences; usually not susceptible to immediate threats.
G5	Very common; demonstrably secure under present conditions.
GH	Historic, no records in the past 20 years.
GU	Status uncertain, often because of low search effort or cryptic nature of the species; more data needed.
GX	Globally extinct. No recent records despite specific searches.
?	Denotes inexact numeric rank (i.e. G4?).
G	A "G" (or "T") followed by a blank space means that the NHIC has not yet obtained the Global Rank from The Nature Conservancy.
G?	Unranked, or, if following a ranking, rank tentatively assigned (e.g. G3?).
Q	Denotes that the taxonomic status of the species, subspecies, or variety is questionable.
T	Denotes that the rank applies to a subspecies or variety.

SRANK **Provincial Rank**

Provincial (or Sub-national) ranks are used by the Ontario Ministry of Natural Resources Natural Heritage Information Centre (NHIC) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. By comparing the global and provincial ranks, the status, rarity, and the urgency of conservation needs can be ascertained. The NHIC evaluates provincial ranks on a continual basis and produces updated lists at least annually.

- S1 **Critically imperilled** in Ontario because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation.
- S2 **Imperilled** in Ontario because of rarity due to very restricted range, very few populations (often 20 or fewer occurrences) steep declines or other factors making it very vulnerable to extirpation.
- S3 **Vulnerable** in Ontario due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
- S4 **Apparently Secure**—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- S5 **Secure**—Common, widespread, and abundant in Ontario.
- SX **Presumed Extirpated** – Species or community is believed to be extirpated from Ontario.
- SH **Possibly Extirpated** – Species or community occurred historically in Ontario and there is some possibility that it may be rediscovered.
- SNR **Unranked**—Conservation status in Ontario not yet assessed
- SU **Unrankable**—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
- SNA **Not Applicable** —A conservation status rank is not applicable because the species is not a suitable target for conservation activities.
- S#S# **Range Rank** —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).

Species Regulated by Statute

SARA Species at Risk Act

The Canada *Species at Risk Act* provides a framework for actions across Canada to ensure the survival of wildlife species and the protection of our natural heritage. It sets out how to decide which species are a priority for action and what to do to protect a species. It identifies ways governments, organizations and individuals can work together, and it establishes penalties for a failure to obey the law. Regulated species are listed in Schedules 1, 2 and 3 of the Act.

Schedule 1 SARA (1)	Species that are currently covered under the Act.
Schedule 2 SARA (2)	Species that are endangered or threatened that have not been re-assessed by COSEWIC for inclusion on Schedule 1.
Schedule 3 SARA (3)	Species that are of special concern that have not yet been re-assessed by COSEWIC for inclusion on Schedule 1.

ESA Endangered Species Act

The Ontario *Endangered Species Act* provides for the conservation, protection, restoration and propagation of species of fauna and flora of the Province of Ontario that are threatened with extinction. Regulated species are listed in Ontario Regulation 338.

Schedule 1 ESA (1)	The species of fauna listed in Schedule 1 are declared to be threatened with extinction.
Schedule 2 ESA (2)	The species of flora listed in Schedule 2 are declared to be threatened with extinction.

FWCA Fish and Wildlife Conservation Act

The Ontario *Fish and Wildlife Conservation Act* enables the Ministry of Natural Resources to protect and manage a broad range of fish and wildlife species. Regulated fish and wildlife are listed as furbearing (F), game (G) or protected (P) in schedules to the Act.

FWCA (F)	Furbearing mammals (Schedule 1).
FWCA (G)	Game mammals (Schedule 2), birds (Schedule 3), reptiles (Schedule 4) and amphibians (Schedule 5)
FWCA (SP)	Specially protected mammals (Schedule 6), birds (raptors) (Schedule 7), birds (other than raptors) (Schedule 8), reptiles (Schedule 9), amphibians (Schedule 10) and invertebrates (Schedule 11).

MBCA Migratory Birds Convention Act

The Canada *Migratory Birds Convention Act* implements the Convention by protecting and conserving migratory birds — as populations and individual birds — and their nests. Article 1 identifies the migratory game birds, migratory insectivorous birds and other migratory non-game birds regulated by the Act.

FA Fisheries Act

The Canada *Fisheries Act* enables the Department of Fisheries and Oceans to protect and manage fish and fish habitat. Fish includes: parts of fish; shellfish, crustaceans, marine animals and any parts of shellfish, crustaceans or marine animals; and, the eggs, sperm, spawn, larvae, spat and juvenile stages of fish, shellfish, crustaceans and marine animals.

PA Planning Act

The Ontario *Planning Act* legislates land use planning and development within the province. The *Provincial Policy Statement* is issued under the authority of Section 3 of the *Planning Act*. It provides direction on matters of provincial interest related to land use planning and development, and promotes the provincial “policy-led” planning system. The PPS enables the Province to protect significant natural heritage features and areas including the significant habitat of endangered and threatened species.

DRAFT

APPENDIX B

APPENDIX B
LIST OF VASCULAR PLANTS LOCATED IN THE AREA OF INVESTIGATION

Scientific Name	Common Name	COSEWIC	COSSARO	Grank	Srank	Local Status	Legal Status
EQUISETACEAE	HORSETAIL FAMILY						
<i>Equisetum arvense</i>	field horsetail			G5	S5	C	
<i>Equisetum hyemale</i> ssp. <i>affine</i>	scouring-rush			G5T5	S5	C	
<i>Equisetum laevigatum</i>	smooth scouring-rush			G5	S4	VU	
<i>Equisetum pratense</i>	meadow horsetail			G5	S5	?	
<i>Equisetum variegatum</i> ssp. <i>variegatum</i>	variegated horsetail			G5T	S5	R2	
OPHIOGLOSSACEAE	ADDER'S TONGUE FAMILY						
<i>Botrychium dissectum</i>	cut-leaved grape fern			G5	S5	C	
OSMUNDACEAE	ROYAL FERN FAMILY						
<i>Osmunda claytoniana</i>	interrupted fern			G5	S5	U	
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern			G5T5	S5	U	
DENNSTAEDTIACEAE	BRACKEN FERN FAMILY						
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	eastern bracken-fern			G5T5	S5	U	
THELYPTERIDACEAE	MARSH FERN						
<i>Thelypteris noveboracensis</i>	New York fern			G5	S4S5	R5	
<i>Thelypteris palustris</i> var. <i>pubescens</i>	marsh fern			G5T5	S5	C	
DRYOPTERIDACEAE	WOOD FERN FAMILY						
<i>Athyrium filix-femina</i> var. <i>angustum</i>	northern lady fern			G5T5	S5	C	
<i>Dryopteris carthusiana</i>	spinulose wood fern			G5	S5	C	
<i>Matteuccia struthiopteris</i> var. <i>pennsylvanica</i>	ostrich fern			G5T5	S5	R3	
<i>Onoclea sensibilis</i>	sensitive fern			G5	S5	C	
PINACEAE	PINE FAMILY						
* <i>Picea abies</i>	Norway spruce			G?	SE3	?	
<i>Picea glauca</i>	white spruce			G5	S5	?	
* <i>Picea pungens</i>	Colorado spruce			G5	SE1	?	
* <i>Pinus nigra</i>	Austrian pine			G?	SE2	?	
<i>Pinus strobus</i>	eastern white pine			G5	S5	R1	
* <i>Pinus sylvestris</i>	scotch pine			G?	SE5	?	
CUPRESSACEAE	CEDAR FAMILY						
<i>Juniperus communis</i>	common juniper			G5	S5	R4	
<i>Juniperus virginiana</i>	eastern red cedar			G5	S5	C	
<i>Thuja occidentalis</i>	eastern white cedar			G5	S5	?	

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TAXACEAE	YEW FAMILY						
* <i>Taxus cuspidata</i>	Japanese yew				SE	?	
MAGNOLIACEAE	MAGNOLIA FAMILY						
* <i>Magnolia soulangeana</i>	saucer magnolia				SE	?	
LAURACEAE	LAUREL FAMILY						
<i>Sassafras albidum</i>	sassafras			G5	S4	C	
RANUNCULACEAE	BUTTERCUP FAMILY						
<i>Actaea pachypoda</i>	white baneberry			G5	S5	C	
<i>Anemone americana</i>	round-lobed hepatica			G?	S5	R5	
<i>Anemone canadensis</i>	Canada anemone			G5	S5	C	
<i>Anemone cylindrica</i>	thimbleweed			G5	S4	VU	
<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	wood anemone			G5	S5	C	
<i>Anemone virginiana</i> var. <i>virginiana</i>	thimbleweed			G5T5	S5	C	
<i>Aquilegia canadensis</i>	wild columbine			G5	S5	C	
<i>Ranunculus abortivus</i>	kidney-leaf buttercup			G5	S5	C	
* <i>Ranunculus acris</i>	tall buttercup			G5	SE5	Ivu	
<i>Ranunculus hispidus</i> var. <i>caricetorum</i>	swamp buttercup			G5T5	S5	C	
<i>Ranunculus recurvatus</i> var. <i>recurvatus</i>	hooked buttercup			G5	S5	VU	
<i>Ranunculus sceleratus</i> var. <i>sceleratus</i>	cursed buttercup			G5T5	SU	C	
<i>Thalictrum dasycarpum</i>	purple meadow-rue			G5	S4?	C	
<i>Thalictrum dioicum</i>	early meadow-rue			G5	S5	C	
<i>Thalictrum pubescens</i>	tall meadow-rue			G5	S5	?	
<i>Thalictrum revolutum</i>	waxy meadow-rue			G5	S2	R2	
BERBERIDACEAE	BARBERRY FAMILY						
* <i>Berberis thunbergii</i>	Japanese barberry			G?	SE5	Iu	
* <i>Berberis vulgaris</i>	common barberry			G?	SE5	?	
<i>Podophyllum peltatum</i>	may-apple			G5	S5	C	
MENISPERMACEAE	MOONSEED FAMILY						
<i>Menispermum canadense</i>	moonseed			G5	S4	C	
PAPAVERACEAE	POPPY FAMILY						
* <i>Chelidonium majus</i>	celandine			G?	SE5	Ir	
PLATANACEAE	PLANE-TREE FAMILY						
<i>Platanus occidentalis</i>	sycamore			G5	S4	C	
HAMAMELIDACEAE	WITCH-HAZEL FAMILY						

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<i>Hamamelis virginiana</i>	witch-hazel			G5	S5	C	
ULMACEAE	ELM FAMILY						
<i>Celtis occidentalis</i>	common hackberry			G5	S4	C	
<i>Ulmus americana</i>	white elm			G5?	S5	C	
* <i>Ulmus glabra</i>	Scotch elm			G?	SE1	?	
* <i>Ulmus pumila</i>	Siberian elm			G?	SE3	Ivu	
<i>Ulmus rubra</i>	slippery elm			G5	S5	C	
MORACEAE	MULBERRY FAMILY						
* <i>Morus alba</i>	white mulberry			G?	SE5	Ic	
URTICACEAE	NETTLE FAMILY						
<i>Boehmeria cylindrica</i>	false nettle			G5	S5	C	
<i>Pilea pumila</i>	dwarf clearweed			G5	S5	C	
* <i>Urtica dioica</i> ssp. <i>dioica</i>	European stinging nettle			G5T?	SE2	?	
JUGLANDACEAE	WALNUT FAMILY						
<i>Carya cordiformis</i>	bitternut hickory			G5	S5	C	
<i>Carya glabra</i>	pignut hickory			G5	S3	VU	
<i>Carya laciniosa</i>	big shellbark hickory			G5	S3	C	
<i>Carya ovata</i> var. <i>ovata</i>	shagbark hickory			G5	S5	C	
<i>Juglans cinerea</i>	butternut	END	END	G3G4	S3?	C	SARA (1), PA
<i>Juglans nigra</i>	black walnut			G5	S4	C	
* <i>Juglans regia</i>	English walnut			G?	SE1	?	
FAGACEAE	BEECH FAMILY						
<i>Quercus alba</i>	white oak			G5	S5	C	
<i>Quercus bicolor</i>	swamp white oak			G5	S4	C	
<i>Quercus macrocarpa</i>	bur oak			G5	S5	C	
<i>Quercus palustris</i>	pin oak			G5	S3	C	
<i>Quercus rubra</i>	red oak			G5	S5	C	
<i>Quercus shumardii</i>	shumard oak	SC	SC	G5	S3	U	SARA (3)
<i>Quercus velutina</i>	black oak			G5	S4	C	
BETULACEAE	BIRCH FAMILY						
<i>Betula papyrifera</i>	white birch			G5	S5	Ir	
* <i>Betula pendula</i>	European weeping birch			G?	SE4	?	
<i>Carpinus caroliniana</i> ssp. <i>virginiana</i>	blue beech			G5T	S5	C	
<i>Corylus americana</i>	American hazel			G5	S5	C	
<i>Corylus cornuta</i> ssp. <i>cornuta</i>	beaked hazel			G5T	S5	?	
<i>Ostrya virginiana</i>	ironwood			G5	S5	C	
PHYTOLACCACEAE	POKEWEED FAMILY						

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<i>Phytolacca americana</i>	pokeweed			G5	S4	C	
NYCTAGINACEAE	FOUR-O-CLOCK FAMILY						
<i>Mirabilis nyctaginea</i>	wild four-o'clock			G5	S4	lc	
CHENOPODIACEAE	GOOSEFOOT FAMILY						
* <i>Chenopodium album</i> var. <i>album</i>	lamb's quarters			G5T5	SE5	lc	
* <i>Salsola kali</i>	Russian thistle			G?	SE1	lc	
<i>Suaeda calceoliformis</i>	western seablite			G5	S2	?	
CARYOPHYLLACEAE	PINK FAMILY						
* <i>Cerastium semidecandrum</i>	small chickweed			G?	SE5	lr	
* <i>Dianthus armeria</i>	deptford pink			G?	SE5	lc	
* <i>Lychnis coronaria</i>	mullein pink			G?	SE3	?	
* <i>Saponaria officinalis</i>	bouncing-bet			G?	SE5	lc	
* <i>Silene latifolia</i>	bladder campion			G?	SE5	lu	
* <i>Stellaria media</i>	common chickweed			G?	SE5	lc	
POLYGONACEAE	SMARTWEED FAMILY						
* <i>Polygonum convolvulus</i>	black bindweed			G?	SE5	lc	
* <i>Polygonum cuspidatum</i>	Japanese knotweed			G?	SE4	lr	
* <i>Polygonum hydropiper</i>	water-pepper			G5	SE5	C	
<i>Polygonum lapathifolium</i>	pale smartweed			G5	S5	C	
<i>Polygonum pennsylvanicum</i>	Pennsylvania smartweed			G5	S5	C	
* <i>Polygonum persicaria</i>	lady's-thumb			G?	SE5	lc	
<i>Polygonum punctatum</i>	water smartweed			G5	S5	C	
<i>Polygonum virginianum</i>	Virginia knotweed			G5	S4	C	
* <i>Rumex acetosella</i> ssp. <i>acetosella</i>	sheep sorrel			G5T	SE	lc	
* <i>Rumex crispus</i>	curly-leaf dock			G?	SE5	lc	
GUTTIFERAE	ST. JOHN'S-WORT FAMILY						
* <i>Hypericum perforatum</i>	common St. John's-wort			G?	SE5	lc	
<i>Hypericum punctatum</i>	corymbed St. John's-wort			G5	S5	C	
TILIACEAE	LINDEN FAMILY						
<i>Tilia americana</i>	American basswood			G5	S5	C	
MALVACEAE	MALLOW FAMILY						
* <i>Abutilon theophrasti</i>	velvet-leaf			G?	SE5	lc	
* <i>Hibiscus syriacus</i>	Rose-of-Shraon					lr	
* <i>Hibiscus trionum</i>	flower-of-an-hour			G?	SE4	lu	
* <i>Malva neglecta</i>	cheeses			G?	SE5	lr	
VIOLACEAE	VIOLET FAMILY						
<i>Viola blanda</i>	sweet white violet			G4G5	S4S	R2	

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					5		
<i>Viola pubescens</i>	downy yellow violet			G5	S5	C	
<i>Viola sagittata</i> var. <i>sagittata</i>	arrow-leaved violet			G5T5	S4	R4	
<i>Viola sororia</i>	woolly blue violet			G5	S5	C	
SALICACEAE	WILLOW FAMILY						
* <i>Populus alba</i>	silver poplar			G5	SE5	lr	
<i>Populus balsamifera</i> ssp. <i>balsamifera</i>	balsam poplar			G5T5	S5	R2	
<i>Populus deltoides</i> ssp. <i>deltoides</i>	eastern cottonwood			G5T5	SU	C	
<i>Populus grandidentata</i>	large-tooth aspen			G5	S5	U	
<i>Populus tremuloides</i>	trembling aspen			G5	S5	C	
* <i>Salix alba</i>	white willow			G5	SE4	lr	
<i>Salix amygdaloides</i>	peach-leaved willow			G5	S5	C	
<i>Salix bebbiana</i>	long-beaked willow			G5	S5	VU	
<i>Salix discolor</i>	pussy willow			G5	S5	C	
<i>Salix eriocephala</i>	Missouri willow			G5	S5	C	
<i>Salix exigua</i>	sandbar willow			G5	S5	C	
<i>Salix humilis</i>	prairie willow			G5	S5	R4	
<i>Salix lucida</i>	shining willow			G5	S5	R1	
* <i>Salix matsudana</i>	corkscrew willow					lr	
<i>Salix nigra</i>	black willow			G5	S4?	U	
<i>Salix petiolaris</i>	slender willow			G5	S5	R1	
* <i>Salix X rubens</i>	hybrid crack willow			HYB	SE4	lr	
* <i>Salix X sepulcralis</i>	weeping willow			HYB	SE2	?	
BRASSICACEAE	MUSTARD FAMILY						
* <i>Alliaria petiolata</i>	garlic mustard			G5	SE5	lc	
* <i>Barbarea vulgaris</i>	yellow rocket			G?	SE5	lc	
* <i>Berteroa incana</i>	hoary alyssum			G?	SE5	lu	
* <i>Brassica nigra</i>	black mustard			G?	SE5	?	
* <i>Capsella bursa-pastoris</i>	shepherd's purse			G?	SE5	lc	
<i>Cardamine douglassii</i>	purple cress			G5	S4	C	
* <i>Erysimum cheiranthoides</i> ssp. <i>cheiranthoides</i>	wormseed mustard				SE5	lc	
* <i>Hesperis matronalis</i>	dame's rocket			G4G5	SE5	lu	
* <i>Lepidium campestre</i>	field cress			G?	SE5	lc	
* <i>Rorippa sylvestris</i>	creeping yellow-cress			G5	SE5	lvu	
* <i>Sisymbrium altissimum</i>	tall tumble-mustard			G?	SE5	lvu	
* <i>Thlaspi arvense</i>	field penny-cress			G?	SE5	lc	

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ERICACEAE	HEATH FAMILY						
<i>Vaccinium pallidum</i>	pale blueberry			G5	S4	C	
PYROLACEAE	WINTERGREEN FAMILY						
<i>Pyrola elliptica</i>	shinleaf			G5	S5	R3	
PRIMULACEAE	PRIMROSE FAMILY						
<i>Lysimachia ciliata</i>	fringed loosestrife			G5	S5	C	
* <i>Lysimachia nummularia</i>	moneywort			G?	SE5	lc	
<i>Lysimachia quadriflora</i>	four-flowered loosestrife			G5?	S4	R4	
<i>Lysimachia quadrifolia</i>	whorled loosestrife			G5	S4	R4	
GROSSULARIACEAE	GOOSEBERRY FAMILY						
<i>Ribes americanum</i>	wild black currant			G5	S5	C	
<i>Ribes cynosbati</i>	prickly gooseberry			G5	S5	C	
<i>Ribes hirtellum</i>	smooth gooseberry			G5	S5	R3	
* <i>Ribes rubrum</i>	red currant			G4G5	SE5	?	
SAXIFRAGACEAE	SAXIFRAGE FAMILY						
<i>Penthorum sedoides</i>	ditch stonecrop			G5	S5	C	
ROSACEAE	ROSE FAMILY						
<i>Agrimonia gryposepala</i>	tall hairy agrimony			G5	S5	C	
<i>Agrimonia parviflora</i>	many-flowered agrimony			G5	S3	C	
<i>Amelanchier arborea</i>	downy juneberry			G5	S5	U	
<i>Amelanchier laevis</i>	smooth juneberry			G4G5 Q	S5	VU	
<i>Aronia melanocarpa</i>	black chokeberry			G5	S5	U	
<i>Crataegus crus-galli</i>	cockspur thorn			G5	S5	C	
<i>Crataegus mollis</i>	downy thorn			G5	S5	R1	
* <i>Crataegus monogyna</i>	English hawthorn			G5	SE5	lr	
<i>Crataegus punctata</i>	large-fruited thorn			G5	S5	C	
<i>Fragaria virginiana</i> ssp. <i>virginiana</i>	scarlet strawberry			G5T5	SU	C	
<i>Geum aleppicum</i>	yellow avens			G5T5	S5	R3	
<i>Geum canadense</i>	white avens			G5	S5	C	
<i>Geum vernum</i>	spring avens			G5	S3	C	
* <i>Malus baccata</i>	Siberian crabapple			G?	SE1	?	
<i>Malus coronaria</i>	narrow-leaved crabapple			G5	S4	C	
* <i>Malus pumila</i>	common crabapple			G5	SE5	lr	
<i>Physocarpus opulifolius</i>	ninebark			G5	S5	R2	
<i>Potentilla anserina</i> ssp. <i>anserina</i>	silverweed				S5	C	
<i>Potentilla canadensis</i>	common cinquefoil			G5	SU	?	

APPENDIX B
LIST OF VASCULAR PLANTS LOCATED IN THE AREA OF INVESTIGATION

Scientific Name	Common Name	COSEWIC	COSSARO	Grank	Srank	Local Status	Legal Status
<i>Potentilla norvegica</i> ssp. <i>norvegica</i>	cinquefoil			G5T?	SU	lc	
* <i>Potentilla recta</i>	rough-fruited cinquefoil			G?	SE5	lc	
<i>Potentilla simplex</i>	old-field cinquefoil			G5	S5	C	
* <i>Prunus avium</i>	sweet cherry			G?	SE4	lr	
* <i>Prunus cerasus</i>	sour cherry			G?	SE1	lr	
<i>Prunus pensylvanica</i>	pin cherry			G5	S5	R1	
<i>Prunus serotina</i>	black cherry			G5	S5	C	
<i>Prunus virginiana</i> ssp. <i>virginiana</i>	choke cherry			G5T5	S5	C	
* <i>Prunus virginiana</i> var. <i>Schubert</i>	Schubert Chokecherry					?	
* <i>Pyrus communis</i>	common pear			G5	SE4	lr	
<i>Rosa acicularis</i> ssp. <i>sayi</i>	prickly rose			G5T5	S5	?	
<i>Rosa blanda</i>	smooth rose			G5	S5	C	
<i>Rosa carolina</i>	swamp rose			G5	S4	C	
* <i>Rosa multiflora</i>	multiflora rose			G?	SE4	lc	
<i>Rosa palustris</i>	marsh rose			G5	S5	C	
* <i>Rosa rubiginosa</i>	sweetbrier rose				SE4	lu	
<i>Rosa setigera</i>	prairie rose	SC	SC	G5	S3	C	SARA (1)
<i>Rubus allegheniensis</i>	common blackberry			G5	S5	C	
<i>Rubus canadensis</i>	smooth blackberry			G5	S4?	?	
<i>Rubus flagellaris</i>	prickly raspberry			G5	S4	C	
<i>Rubus hispida</i>	trailing blackberry			G5	S4S 5	C	
<i>Rubus idaeus</i> ssp. <i>melanolasius</i>	wild red raspberry			G5T5	S5	C	
<i>Rubus occidentalis</i>	thimble-berry			G5	S5	C	
* <i>Sorbaria sorbifolia</i>	false spiraea			G5	SE4	?	
* <i>Sorbus aucuparia</i>	European mountain-ash			G5	SE4	lr	
<i>Spiraea alba</i>	narrow-leaved meadow-sweet			G5	S5	C	
* <i>Spiraea prunifolia</i>	bridal-wreath spiraea			G5	SE1	?	
<i>Spiraea tomentosa</i>	tomentose meadow-sweet			G5	S4S 5	R4	
FABACEAE	PEA FAMILY						
<i>Amphicarpaea bracteata</i>	hog peanut			G5	S5	C	
<i>Apios americana</i>	groundnut			G5	S5	C	
<i>Baptisia tinctoria</i>	wild indigo			G5	S2	R5	
* <i>Caragana arborescens</i>	Siberian pea tree			G?	SE1	?	
<i>Cercis canadensis</i>	Canadian redbud			G5	SX	Rh	

APPENDIX B
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* <i>Coronilla varia</i>	variable crown-vetch			G?	SE5	lu	
<i>Desmodium canadense</i>	Canadian tick-trefoil			G5	S4	C	
<i>Desmodium glutinosum</i>	pointed-leaved tick-trefoil			G5	S4	U	
<i>Gleditsia triacanthos</i>	honey locust			G5	S2	U	
<i>Gymnocladus dioicus</i>	Kentucky coffee-tree	THR	THR	G5	S2	VU	SARA (1), PA
* <i>Lathyrus latifolius</i>	everlasting pea			G?	SE4	lvu	
<i>Lathyrus ochroleucus</i>	cream-coloured vetchling			G4G5	S4	R1	
<i>Lathyrus palustris</i>	marsh vetchling			G5	S5	U	
* <i>Lathyrus tuberosus</i>	tuberous vetchling			G?	SE3	lr	
<i>Lespedeza capitata</i>	round-headed bush-clover			G5	S4	R3	
* <i>Lotus corniculatus</i>	bird's-foot trefoil			G?	SE5	lc	
* <i>Medicago lupulina</i>	black medick			G?	SE5	lc	
* <i>Medicago sativa</i> ssp. <i>sativa</i>	alfalfa			G?T?	SE5	lvu	
* <i>Melilotus alba</i>	white sweet-clover			G?	SE5	lc	
* <i>Melilotus officinalis</i>	yellow sweet-clover			G?	SE5	lc	
* <i>Robinia pseudo-acacia</i>	black locust			G5	SE5	lu	
* <i>Trifolium aureum</i>	yellow clover			G?	SE5	lr	
* <i>Trifolium hybridum</i> ssp. <i>elegans</i>	alsike clover				SE5	lr	
* <i>Trifolium pratense</i>	red clover			G?	SE5	lu	
* <i>Trifolium repens</i>	white clover			G?	SE5	lu	
* <i>Vicia cracca</i>	tufted vetch			G?	SE5	lr	
Elaeagnaceae	OLEASTER FAMILY						
* <i>Elaeagnus angustifolia</i>	Russian olive			G?	SE3	lr	
* <i>Elaeagnus umbellata</i>	Russian olive			G?	SE3	lr	
Lythraceae	LOOSESTRIFE FAMILY						
<i>Lythrum alatum</i>	wing-angled loosestrife			G5	S3	C	
* <i>Lythrum salicaria</i>	purple loosestrife			G5	SE5	lc	
Onagraceae	EVENING-PRIMROSE FAMILY						
<i>Circaea lutetiana</i> ssp. <i>canadensis</i>	yellowish enchanter's nightshade			G5T5	S5	C	
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	ciliate willow-herb			G5T?	S5	R1	
* <i>Epilobium hirsutum</i>	great hairy willow-herb			G?	SE5	lc	
<i>Gaura biennis</i>	biennial gaura			G5	S2	U	
<i>Ludwigia alternifolia</i>	rattle-box			G5	S1	R3	
<i>Ludwigia polycarpa</i>	many-fruited false loosestrife			G4	S2	U	
<i>Oenothera biennis</i>	common evening-primrose			G5	S5	C	

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<i>Oenothera perennis</i>	perennial evening-primrose			G5	S4S 5	R1	
CORNACEAE	DOGWOOD FAMILY						
<i>Cornus amomum</i> ssp. <i>obliqua</i>	silky dogwood			G5T?	S5	C	
<i>Cornus drummondii</i>	Drummond's dogwood			G5	S4	C	
<i>Cornus foemina</i> ssp. <i>racemosa</i>	gray dogwood			G5T5?	S5	C	
<i>Cornus rugosa</i>	round-leaved dogwood			G5	S5	?	
<i>Cornus stolonifera</i>	red-osier dogwood			G5	S5	C	
NYSSACEAE	SOUR GUM FAMILY						
<i>Nyssa sylvatica</i>	black gum			G5	S3	U	
SANTALACEAE	SANDALWOOD FAMILY						
<i>Comandra umbellata</i>	bastard toad-flax			G5	S5	C	
CELASTRACEAE	STAFF-TREE FAMILY						
* <i>Celastrus orbiculatus</i>	Oriental bittersweet			G?	SE2	?	
<i>Celastrus scandens</i>	climbing bittersweet			G5	S5	C	
* <i>Euonymus alata</i>	winged spindle tree			G?	SE2	lr	
* <i>Euonymus europaea</i>	spindle tree			G?	SE2	lr	
<i>Euonymus obovata</i>	running strawberry-bush			G5	S5	C	
EUPHORBIACEAE	SPURGE FAMILY						
<i>Acalypha virginica</i> var. <i>rhomboidea</i>	three-seeded mercury			G5T5	S5	C	
* <i>Chamaesyce maculata</i>	spotted spurge			G5?	SE5	lc	
<i>Euphorbia corollata</i>	flowering spurge			G5	S4	VU	
RHAMNACEAE	BUCKTHORN FAMILY						
* <i>Rhamnus cathartica</i>	common buckthorn			G?	SE5	lvu	
* <i>Rhamnus frangula</i>	glossy buckthorn			G?	SE5	lr	
VITACEAE	GRAPE FAMILY						
<i>Parthenocissus inserta</i>	inserted Virginia-creeper			G5	S5	C	
<i>Parthenocissus quinquefolia</i>	five-leaved Virginia-creeper			G5	S4?	C	
<i>Vitis aestivalis</i>	summer grape			G5	S4	U	
<i>Vitis labrusca</i>	fox grape			G5	S1	R1/ lr	
<i>Vitis riparia</i>	riverbank grape			G5	S5	C	
POLYGALACEAE	MILKWORT FAMILY						
<i>Polygala sanguinea</i>	blood-red milkwort			G5	S4	R4	
<i>Polygala verticillata</i>	whorled milkwort			G5	S4	VU	
HIPPOCASTANACEAE	BUCKEYE FAMILY						

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* <i>Aesculus hippocastanum</i>	horse chestnut			G?	SE2	Ir	
ACERACEAE	MAPLE FAMILY						
<i>Acer negundo</i>	Manitoba maple			G5	S5	C	
* <i>Acer platanoides</i>	Norway maple			G?	SE5	lu	
<i>Acer rubrum</i>	red maple			G5	S5	C	
<i>Acer saccharinum</i>	silver maple			G5	S5	C	
<i>Acer saccharum</i> ssp. <i>saccharum</i>	sugar maple			G5T5	S5	C	
<i>Acer X freemanii</i>	freeman's maple			HYB	S5?	R?	
ANACARDIACEAE	SUMAC FAMILY						
<i>Rhus glabra</i>	smooth sumac			G5	S5	U	
<i>Rhus radicans</i>	poison-ivy			G5	S5	C	
<i>Rhus rydbergii</i>	western poison-ivy			G5T	S5	C	
<i>Rhus typhina</i>	staghorn sumac			G5	S5	C	
SIMAROUBACEAE	AILANTHUS FAMILY						
* <i>Ailanthus altissima</i>	tree-of-heaven			G?	SE5	Ir	
RUTACEAE	RUE FAMILY						
<i>Zanthoxylum americanum</i>	American prickly-ash			G5	S5	C	
OXALIDACEAE	WOOD SORREL FAMILY						
<i>Oxalis stricta</i>	upright yellow wood-sorrel			G5	S5	C	
GERANIACEAE	GERANIUM FAMILY						
<i>Geranium maculatum</i>	spotted crane's-bill			G5	S5	C	
BALSAMINACEAE	TOUCH-ME-NOT FAMILY						
<i>Impatiens capensis</i>	spotted touch-me-not			G5	S5	C	
ARALIACEAE	GINSENG FAMILY						
<i>Aralia nudicaulis</i>	wild sarsaparilla			G5	S5	C	
APIACEAE	PARSLEY FAMILY						
<i>Angelica atropurpurea</i>	dark-purple alexanders			G5	S5	R1	
<i>Cicuta maculata</i>	spotted water-hemlock			G5	S5	C	
* <i>Daucus carota</i>	wild carrot			G?	SE5	lc	
<i>Heracleum lanatum</i>	cow-parsnip			G5	S5	R5	
<i>Oxypolis rigidior</i>	cowbane			G5	S2	U	
* <i>Pastinaca sativa</i>	wild parsnip			G?	SE5	lu	
<i>Sanicula canadensis</i> var. <i>canadensis</i>	Canada snakeroot			G5T5	S4	C	
<i>Sanicula marilandica</i>	black snakeroot			G5	S5	C	
<i>Sium suave</i>	hemlock water-parsnip			G5	S5	C	
GENTIANACEAE	GENTIAN FAMILY						
* <i>Centaureum erythraea</i>	erythraea-like centaury			G?	SE2	Ir	

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<i>Gentiana andrewsii</i>	closed gentian			G4	S4	U	
<i>Gentianopsis crinita</i>	fringed gentian				S5	R4	
APOCYNACEAE	DOGBANE FAMILY						
<i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i>	spreading dogbane			G5T5	S5	U	
<i>Apocynum cannabinum</i> var. <i>cannabinum</i>	Indian hemp			G5T	S5	C	
* <i>Vinca minor</i>	periwinkle			G?	SE5	lr	
ASCLEPIADACEAE	MILKWEED FAMILY						
<i>Asclepias incarnata</i> ssp. <i>incarnata</i>	swamp milkweed			G5T5	S5	C	
<i>Asclepias purpurascens</i>	purple milkweed			G4G5	S2	R5	
<i>Asclepias sullivantii</i>	Sullivant's milkweed			G5	S2	?	
<i>Asclepias syriaca</i>	common milkweed			G5	S5	C	
<i>Asclepias tuberosa</i>	butterfly-weed			G5?	S4	U	
* <i>Cynanchum nigrum</i>	black swallow-wort			G?	SE?	?	
* <i>Cynanchum rossicum</i>	swallow-wort			G?	SE5	?	
SOLANACEAE	POTATO FAMILY						
* <i>Lycopersicon esculentum</i>	tomato			G?	SE2	?	
<i>Physalis heterophylla</i>	clammy ground-cherry			G5	S4	C	
<i>Physalis virginiana</i>	Virginia ground-cherry			G5	SU	R1	
* <i>Solanum carolinense</i>	horse nettle			G5	SE3	lu	
* <i>Solanum dulcamara</i>	bitter nightshade			G?	SE5	lc	
* <i>Solanum tuberosum</i>	potato			G?	SE1	?	
CONVOLVULACEAE	MORNING-GLORY FAMILY						
<i>Calystegia sepium</i> ssp. <i>angulatum</i>	hedge bindweed			G4G5 T?	SU	C	
<i>Calystegia spithamea</i> ssp. <i>Spithamea</i>	low bindweed			G4G5 T4T5	S4S 5	?	
* <i>Convolvulus arvensis</i>	field bindweed			G?	SE5	lc	
<i>Cuscuta</i> sp.	dodder					?	
BORAGINACEAE	BORAGE FAMILY						
* <i>Cynoglossum officinale</i>	hound's-tongue			G?	SE5	lr	
* <i>Echium vulgare</i>	blueweed			G?	SE5	lr	
<i>Hackelia deflexa</i>	spurred stickweed			G5	S5	?	
<i>Hackelia virginiana</i>	Virginia stickweed			G5	S5	C	
<i>Lithospermum carolinense</i> var. <i>croceum</i>	plains puccoon			G4G5 T4T5	S3	R2	
PHRYMACEAE	LOPSEED FAMILY						
<i>Phryma leptostachya</i>	lopseed			G5	S4S	C	

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					5		
VERBENACEAE	VERVAIN FAMILY						
<i>Verbena hastata</i>	blue vervain			G5	S5	C	
<i>Verbena stricta</i>	hoary vervain			G5	S4	R2	
<i>Verbena urticifolia</i>	white vervain			G5	S5	C	
LAMIACEAE	MINT FAMILY						
<i>Clinopodium vulgare</i>	wild basil			G5	S5	U	
<i>Collinsonia canadensis</i>	stoneroot			G5	S4	C	
* <i>Glechoma hederacea</i>	creeping Charlie			G?	SE5	lc	
* <i>Lamium amplexicaule</i>	henbit			G?	SE3	lr	
* <i>Leonurus cardiaca</i> ssp. <i>cardiaca</i>	common motherwort			G?T?	SE5	lc	
<i>Lycopus americanus</i>	cut-leaved water-horehound			G5	S5	C	
<i>Lycopus uniflorus</i>	northern water-horehound			G5	S5	U	
<i>Mentha arvensis</i> ssp. <i>borealis</i>	American wild mint			G5T5	S5	C	
* <i>Mentha X piperita</i>	pepper mint			HYB	SE4	lvu	
<i>Monarda fistulosa</i>	wild bergamot			G5	S5	C	
* <i>Nepeta cataria</i>	catnip			G?	SE5	lc	
<i>Physostegia virginiana</i> ssp. <i>virginiana</i>	Virginia false dragonhead			G5T?	S4	R5	
* <i>Prunella vulgaris</i> ssp. <i>vulgaris</i>	common heal-all			G5T?	SE3	C	
<i>Pycnanthemum verticillatum</i> var. <i>pilosum</i>	hairy mountain-mint			G5T5	S1	R4	
<i>Pycnanthemum virginianum</i>	Virginia mountain-mint			G5	S4	C	
<i>Scutellaria lateriflora</i>	mad-dog skullcap			G5	S5	C	
<i>Stachys hispida</i>	rough hedge-nettle			G4Q	S4S 5	C	
* <i>Stachys palustris</i>	hedge-nettle			G5	SE5	?	
PLANTAGINACEAE	PLANTAIN FAMILY						
* <i>Plantago lanceolata</i>	ribgrass			G5	SE5	lc	
* <i>Plantago major</i>	common plantain			G5	SE5	lvu	
OLEACEAE	OLIVE FAMILY						
* <i>Forsythia viridissima</i>	golden-bells			G?	SE2	?	
<i>Fraxinus americana</i>	white ash			G5	S5	C	
<i>Fraxinus nigra</i>	black ash			G5	S5	C	
<i>Fraxinus pennsylvanica</i>	red ash			G5	S5	C	
<i>Fraxinus profunda</i>	pumpkin ash			G4	S2	VU	
* <i>Ligustrum vulgare</i>	common privet			G?	SE5	lvu	

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* <i>Syringa vulgaris</i>	common lilac			G?	SE5	Ir	
SCROPHULARIACEAE	FIGWORT FAMILY						
<i>Agalinis purpurea</i>	large purple agalinis			G5	S1	R5	
<i>Agalinis tenuifolia</i> var. <i>macrophylla</i>	slender-leaved agalinis			G4G5 Q	S1?	VU	
<i>Aureolaria flava</i>	yellow false foxglove			G5	S3	R5	
<i>Aureolaria pedicularia</i>	fern-leaved false foxglove			G5	S3	R1	
* <i>Linaria vulgaris</i>	butter-and-eggs			G?	SE5	lc	
<i>Mimulus ringens</i>	square-stemmed monkey-flower			G5	S5	C	
<i>Pedicularis lanceolata</i>	swamp wood-betony			G5	S4	VU	
<i>Penstemon digitalis</i>	foxglove beard-tongue			G5	S4S 5	VU	
* <i>Verbascum blattaria</i>	moth mullein			G?	SE5	lc	
* <i>Verbascum thapsus</i>	common mullein			G?	SE5	lc	
<i>Veronicastrum virginicum</i>	Virginia culver's-root			G4	S2	R4	
BIGNONIACEAE	TRUMPET-CREEPER FAMILY						
<i>Campsis radicans</i>	trumpet creeper			G5	S2	R5/ Ir	
* <i>Catalpa bignonioides</i>	common catalpa			G4G5	SE1	?	
* <i>Catalpa speciosa</i>	northern catalpa			GU	SE1	?	
CAMPANULACEAE	BLUEBELL FAMILY						
* <i>Campanula rapunculoides</i>	creeping bellflower			G?	SE5	C	
<i>Lobelia inflata</i>	Indian tobacco			G5	S5	U	
<i>Lobelia siphilitica</i>	great lobelia			G5	S5	C	
<i>Lobelia spicata</i>	pale-spiked lobelia			G5	S4	VU	
RUBIACEAE	MADDER FAMILY						
<i>Cephalanthus occidentalis</i>	eastern buttonbush			G5	S5	C	
<i>Galium aparine</i>	cleavers			G5	S5	C	
<i>Galium asprellum</i>	rough bedstraw			G5	S5	R3	
<i>Galium circaezans</i>	white wild licorice			G5	S5	C	
* <i>Galium mollugo</i>	white bedstraw			G?	SE5	?	
<i>Galium palustre</i>	marsh bedstraw			G5	S5	R4	
<i>Galium pilosum</i> var. <i>pilosum</i>	hairy bedstraw			G5T?	S3	R3	
<i>Galium trifidum</i> ssp. <i>trifidum</i>	small bedstraw			G5T5	S5	R5	
<i>Galium triflorum</i>	sweet-scented bedstraw			G5	S5	C	
CAPRIFOLIACEAE	HONEYSUCKLE FAMILY						
<i>Diervilla lonicera</i>	bush honeysuckle			G5	S5	R1	
<i>Lonicera canadensis</i>	American fly honeysuckle			G5	S5	R1	
<i>Lonicera dioica</i>	glaucous honeysuckle			G5	S5	C	

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* <i>Lonicera maackii</i>	amur honeysuckle			G?	SE2	lr	
* <i>Lonicera tatarica</i>	Tartarian honeysuckle			G?	SE5	lu	
<i>Sambucus canadensis</i>	common elderberry			G5	S5	C	
<i>Sambucus racemosa</i> ssp. <i>pubens</i>	red-berried elderberry			G5T5	S5	R4	
* <i>Symphoricarpos occidentalis</i>	wolfberry			G5	SE3	?	
<i>Viburnum acerifolium</i>	maple-leaved viburnum			G5	S5	C	
* <i>Viburnum lantana</i>	bending wayfaring-tree			G?	SE2	?	
<i>Viburnum lentago</i>	nannyberry			G5	S5	C	
* <i>Viburnum macrocephalum</i>	Snowball Viburnum					?	
* <i>Viburnum opulus</i>	guelder rose			G5	SE4	?	
<i>Viburnum rafinesquianum</i>	downy arrow-wood			G5	S5	C	
<i>Viburnum recognitum</i>	southern arrow-wood			G5	S4	R1	
DIPSACACEAE	TEASEL FAMILY						
* <i>Dipsacus fullonum</i> ssp. <i>sylvestris</i>	wild teasel			G?T?	SE5	lc	
ASTERACEAE	ASTER FAMILY						
* <i>Achillea millefolium</i> ssp. <i>millefolium</i>	common yarrow			G5T?	SE?	C	
<i>Ambrosia artemisiifolia</i>	common ragweed			G5	S5	C	
<i>Ambrosia trifida</i>	giant ragweed			G5	S5	C	
<i>Anaphalis margaritacea</i>	pearly everlasting			G5	S5	R1?	
<i>Antennaria neglecta</i>	field pussytoes			G5	S5	R2	
<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's pussytoes			G4G5 T?	SU	C	
* <i>Arctium lappa</i>	great burdock			G?	SE5	lr	
* <i>Arctium minus</i> ssp. <i>minus</i>	common burdock			G?T?	SE5	lc	
* <i>Artemisia vulgaris</i>	common mugwort			G?	SE5	lr	
<i>Aster cordifolius</i>	heart-leaved aster			G5	S5	U	
<i>Aster ericoides</i> ssp. <i>ericoides</i>	white heath aster			G5T?	S5	C	
<i>Aster laevis</i> var. <i>laevis</i>	smooth blue aster			G5T?	S5	U	
<i>Aster lanceolatus</i> ssp. <i>lanceolatus</i>	tall white aster			G5T?	S5	C	
<i>Aster lateriflorus</i> var. <i>lateriflorus</i>	calico aster			G5T5	S5	C	
<i>Aster macrophyllus</i>	large-leaved aster			G5	S5	C	
<i>Aster novae-angliae</i>	New England aster			G5	S5	C	
<i>Aster oolentangiensis</i>	sky blue aster			G5	S4	R4	
<i>Aster pilosus</i> var. <i>pilosus</i>	hairy aster			G5T?	S5	C	

APPENDIX B
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Scientific Name	Common Name	COSEWIC	COSSARO	Grank	Srank	Local Status	Legal Status
<i>Aster praealtus</i> var. <i>praealtus</i>	willow aster	THR	THR	G5T?	S2	R2	SARA (1), PA
<i>Aster shortii</i>	short's aster	NAR	NAR	G4G5	S4	U	
* <i>Aster subulatus</i> var. <i>subulatus</i>	annual saltmarsh aster			G5	SE2	lr	
<i>Aster umbellatus</i> var. <i>umbellatus</i>	flat-top white aster			G5T?	S5	R3	
<i>Aster urophyllus</i>	arrow-leaved aster			G4	S4	C	
<i>Bidens frondosa</i>	devil's beggar-ticks			G5	S5	C	
<i>Bidens tripartita</i>	European beggar-ticks			G5	S5	C	
* <i>Centaurea maculosa</i>	spotted knapweed			G?	SE5	lvu	
* <i>Chrysanthemum leucanthemum</i>	ox-eye daisy			G?	SE5	lc	
* <i>Cichorium intybus</i>	chicory			G?	SE5	lc	
* <i>Cirsium arvense</i>	Canada thistle			G?	SE5	lc	
<i>Cirsium discolor</i>	field thistle			G5	S4	U	
* <i>Cirsium vulgare</i>	bull thistle			G5	SE5	lc	
<i>Conyza canadensis</i>	horseweed			G5	S5	C	
<i>Coreopsis tripteris</i>	tall tickseed			G5	S2	U	
<i>Erechtites hieracifolia</i>	fire-weed			G5	S5	C	
<i>Erigeron annuus</i>	daisy fleabane			G5	S5	C	
<i>Erigeron philadelphicus</i> ssp. <i>philadelphicus</i>	Philadelphia fleabane			G5T5	S5	C	
<i>Erigeron strigosus</i>	daisy fleabane			G5	S5	C	
<i>Eupatorium altissimum</i>	tall joe-pyeweed			G5	S1	R3/lu	
<i>Eupatorium maculatum</i> ssp. <i>maculatum</i>	spotted joe-pye-weed			G5T5	S5	C	
<i>Eupatorium perfoliatum</i>	perfoliate thoroughwort			G5	S5	C	
<i>Eupatorium purpureum</i> var. <i>purpureum</i>	purple joe-pye-weed			G5T?	S3	VU	
<i>Euthamia graminifolia</i>	flat-topped bushy goldenrod			G5	S5	C	
<i>Euthamia gymnospermoides</i>	viscid bushy goldenrod			G5	S1	R3	
<i>Helenium autumnale</i>	common sneezeweed			G5	S5	U	
* <i>Helenium flexuosum</i>	purple-headed sneezeweed			G5	SE2 ?	?	
<i>Helianthus divaricatus</i>	rough woodland sunflower			G5	S5	C	
<i>Helianthus giganteus</i>	tall wild sunflower			G5	S5	C	
* <i>Helianthus tuberosus</i>	Jerusalem artichoke			G5	SE5	lu	
* <i>Hieracium aurantiacum</i>	devil's paintbrush			G?	SE5	lr	

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* <i>Hieracium caespitosum</i> ssp. <i>caespitosum</i>	field hawkweed				SE5	lu	
<i>Hieracium scabrum</i>	rough hawkweed			G5	S4	VU	
<i>Krigia biflora</i> var. <i>biflora</i>	two-flowered Cynthia			G5	S2	U	
<i>Lactuca biennis</i>	biennial lettuce			G5	S5	VU	
<i>Lactuca canadensis</i>	tall lettuce			G5	S5	C	
* <i>Lactuca serriola</i>	prickly lettuce			G?	SE5	lc	
<i>Liatris aspera</i> var. <i>intermedia</i>	rough blazing star			G4G5 T?	S2	R2	
<i>Liatris spicata</i>	spiked blazing star	THR	THR	G5	S2	R5	SARA (1), PA
* <i>Matricaria matricarioides</i>	pineapple-weed			G5	SE5	lu	
<i>Prenanthes alba</i>	white rattlesnake-root			G5	S5	C	
<i>Prenanthes racemosa</i> ssp. <i>racemosa</i>	glaucous white rattlesnake-root			G5T?	SU	R4	
<i>Ratibida pinnata</i>	gray-headed coneflower			G5	S2S 3	U	
* <i>Rudbeckia fulgida</i>	orange coneflower			G5	S1	?	
<i>Rudbeckia hirta</i>	black-eyed Susan			G5	S5	C	
<i>Senecio aureus</i>	golden groundsel			G5	S5	VU	
<i>Silphium terebinthinaceum</i> var. <i>terebinthinaceum</i>	prairie dock			G4G5 T4T5	S1	VU	
<i>Solidago altissima</i> var. <i>altissima</i>	tall goldenrod				S5	C	
<i>Solidago caesia</i>	blue-stem goldenrod			G5	S5	C	
<i>Solidago canadensis</i>	Canada goldenrod			G5	S5	C	
<i>Solidago gigantea</i>	giant goldenrod			G5	S5	VU	
<i>Solidago juncea</i>	early goldenrod			G5	S5	U	
<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>	gray goldenrod			G5T5	S5	C	
<i>Solidago ohioensis</i>	Ohio goldenrod			G4	S4	?	
<i>Solidago riddellii</i>	Riddell's goldenrod	SC	SC	G5	S3	VU	SARA (1)
<i>Solidago rigida</i> ssp. <i>rigida</i>	stiff-leaved goldenrod			G5T5	S3	U	
<i>Solidago rugosa</i> ssp. <i>rugosa</i>	rough goldenrod			G5T?	S5	C	
* <i>Solidago sempervirens</i>	seaside goldenrod			G5	SE2	lvu	
* <i>Sonchus arvensis</i> ssp. <i>arvensis</i>	field sow-thistle			G?T?	SE5	lc	
* <i>Sonchus asper</i> ssp. <i>asper</i>	spiny-leaved sow-thistle			G?T?	SE5	lu	
* <i>Sonchus oleraceus</i>	common sow-thistle			G?	SE5	lvu	
* <i>Tanacetum vulgare</i>	common tansy			G?	SE5	lr	

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* <i>Taraxacum officinale</i>	common dandelion			G5	SE5	lc	
* <i>Tragopogon dubius</i>	doubtful goat's-beard			G?	SE5	lc	
<i>Vernonia gigantea*</i>	ironweed			G5T	S3	C	
<i>Vernonica missurica*</i>	ironweed			G4G5	S3?	?	
<i>Xanthium strumarium</i>	tumor-curing cocklebur			G5	S5	C	
BUTOMACEAE	FLOWERING RUSH FAMILY						
* <i>Butomus umbellatus</i>	flowering-rush			G5	SE5	lc	
ALISMATACEAE	WATER-PLANTAIN FAMILY						
<i>Alisma plantago-aquatica</i>	common water-plantain			G5	SR F	C	
<i>Sagittaria latifolia</i>	broad-leaved arrowhead			G5	S5	C	
HYDROCHARITACEAE	FROG'S-BIT FAMILY						
<i>Elodea nuttallii</i>	Nuttall's waterweed			G5	S4	R1	
<i>Vallisneria americana</i>	water-celery			G5	S5	VU	
POTAMOGETONACEAE	PONDWEED FAMILY						
<i>Potamogeton foliosus</i>	leafy pondweed			G5	S5	U	
<i>Potamogeton nodosus</i>	knotty pondweed			G5	S5	R2	
<i>Potamogeton</i> sp.	pondweed					?	
NAJADACEAE	NAIAD FAMILY						
<i>Najas flexilis</i>	slender najas			G5	S5	VU	
ARACEAE	ARUM FAMILY						
<i>Arisaema triphyllum</i> ssp. <i>triphyllum</i>	small jack-in-the-pulpit			G5T5	S5	C	
LEMNACEAE	DUCKWEED FAMILY						
<i>Lemna minor</i>	lesser duckweed			G5	S5	C	
COMMELINACEAE	SPIDERWORT FAMILY						
<i>Tradescantia ohiensis</i>	Ohio spiderwort			G5	S2	VU	
JUNCACEAE	RUSH FAMILY						
<i>Juncus alpinoarticulatus</i>	Richardson's rush			G5	S5	R5	
<i>Juncus biflorus</i>	two-flowered rush			G5Q	S1	R3	
<i>Juncus brachycarpus</i>	short-fruited rush			G4G5	S1	R3	
<i>Juncus bufonius</i>	toad rush			G5	S5	VU	
<i>Juncus dudleyi</i>	Dudley's rush			G5	S5	C	
<i>Juncus greenei</i>	Greene's rush			G5	S3	R3	
<i>Juncus marginatus</i>	grass-leaved rush			G5	S2	R1	
<i>Juncus nodosus</i>	knotted rush			G5	S5	U	
<i>Juncus tenuis</i>	path rush			G5	S5	R1	
<i>Juncus torreyi</i>	Torrey's rush			G5	S5	C	
<i>Luzula multiflora</i> ssp.	woodrush			G5T5	S5	U	

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<i>multiflora</i>							
CYPERACEAE	SEDGE FAMILY						
<i>Carex arctata</i>	drooping wood sedge			G5?	S5	?	
<i>Carex bebbii</i>	Bebb's sedge			G5	S5	C	
<i>Carex blanda</i>	woodland sedge			G5?	S5	C	
<i>Carex brevior</i>	shorter sedge			G5?	S4S 5	R4	
<i>Carex buxbaumii</i>	brown sedge			G5	S5	VU	
<i>Carex cephaloidea</i>	thin-leaved sedge			G5	S5	U	
<i>Carex cephalophora</i>	oval-headed sedge			G5	S5	C	
<i>Carex foena</i>	bronzy sedge			G5	S5	R1	
<i>Carex granularis</i>	meadow sedge			G5	S5	C	
<i>Carex lacustris</i>	lake-bank sedge			G5	S5	C	
<i>Carex lasiocarpa</i>	slender sedge			G5	S5	R2	
<i>Carex normalis</i>	larger straw sedge			G5	S4	C	
<i>Carex pellita</i>	woolly sedge			G5	S5	C	
<i>Carex pensylvanica</i>	Pennsylvania sedge			G5	S5	C	
<i>Carex pseudo-cyperus</i>	cypress-like sedge			G5	S5	?	
<i>Carex radiata</i>	radiate sedge			G4	S4	C	
<i>Carex rosea</i>	stellate sedge			G5	S5	C	
<i>Carex scoparia</i>	pointed broom sedge			G5	S5	R3	
<i>Carex squarrosa</i>	squarrose sedge			G4G5	S2	C	
<i>Carex stipata</i>	awl-fruited sedge			G5	S5	C	
<i>Carex stricta</i>	tussock sedge			G5	S5	C	
<i>Carex swanii</i>	swan's sedge			G5	S3	C	
<i>Carex tenera</i>	straw sedge			G5	S5	C	
<i>Carex trichocarpa</i>	hairy-fruited sedge			G4	S3	?	
<i>Carex viridula</i> ssp. <i>viridula</i>	greenish sedge			G5T5	S5	R4	
<i>Carex vulpinoidea</i>	fox sedge			G5	S5	C	
<i>Carex woodii</i>	wood's sedge			G4Q	S4	VU	
<i>Cyperus esculentus</i>	yellow nut-grass			G5	S5	C	
<i>Cyperus odoratus</i>	fragrant umbrella sedge			G5	S5	C	
<i>Cyperus strigosus</i>	straw-colored umbrella sedge			G5	S5	C	
<i>Eleocharis erythropoda</i>	red-footed spike-rush			G5	S5	C	
<i>Eleocharis obtusa</i>	blunt spike-rush			G5	S5	C	
<i>Rhynchospora capitellata</i>	small-headed beaked-rush			G5	S4	R3	
<i>Scirpus atrovirens</i>	dark-green bulrush			G5?	S5	C	
<i>Scirpus pendulus</i>	lined bulrush			G5	S5	C	
<i>Scirpus validus</i>	American great bulrush			G?	S5	U	

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<i>Scleria triglomerata</i>	tall nut-rush			G5	S1	R4	
POACEAE	GRASS FAMILY						
* <i>Agrostis gigantea</i>	red-top			G4G5	SE5	lc	
<i>Agrostis stolonifera</i>	redtop			G5	S5	U	
<i>Andropogon gerardii</i>	big bluestem			G5	S4	U	
<i>Andropogon virginicus</i>	Virginia broom-sedge			G5	S4	VU	
* <i>Anthoxanthum odoratum</i> ssp. <i>odoratum</i>	sweet vernal grass			G?T?	SE4	?	
<i>Aristida purpurascens</i> var. <i>purpurascens</i>	arrow-feather three-awn			G5T?	S1	R4	
* <i>Avena fatua</i>	wild oats			G?	SE3	lr	
* <i>Bromus inermis</i> ssp. <i>inermis</i>	awnless brome			G4G5 T?	SE5	lc	
* <i>Bromus tectorum</i>	downy chess			G?	SE5	lu	
<i>Calamagrostis canadensis</i>	blue-joint grass			G5	S5	C	
* <i>Dactylis glomerata</i>	orchard grass			G?	SE5	lc	
<i>Danthonia spicata</i>	poverty oat grass			G5	S5	C	
* <i>Digitaria ischaemum</i>	small crabgrass			G?	SE5	lu	
* <i>Digitaria sanguinalis</i>	large crabgrass			G5	SE5	lu	
* <i>Echinochloa crusgalli</i>	common barnyard grass			G?	SE5	lc	
<i>Echinochloa microstachya</i>	small-spiked barnyard grass			G5Q	S4S 5	R?	
<i>Elymus canadensis</i>	nodding wild rye			G5	S4S 5	VU	
<i>Elymus hystrix</i>	bottle-brush grass			G5	S5	C	
* <i>Elymus repens</i>	quack grass			G?	SE5	lc	
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia wild rye			G5T?	S5	C	
* <i>Festuca arundinacea</i>	tall fescue			G?	SE5	lc	
* <i>Festuca pratensis</i>	meadow fescue			G5	SE5	lr	
<i>Festuca rubra</i> ssp. <i>rubra</i>	red fescue			G5T4	S5	lr	
<i>Glyceria striata</i>	fowl meadow grass			G5	S5	C	
<i>Hierochloa odorata</i> ssp. <i>odorata</i>	sweet grass			G5T?	S4	R3	
* <i>Hordeum jubatum</i> ssp. <i>jubatum</i>	squirrel-tail grass			G5T?	SE5	lu	
<i>Leersia oryzoides</i>	rice cut grass			G5	S5	C	
<i>Leersia virginica</i>	white cut grass			G5	S4	C	
* <i>Lolium perenne</i>	English rye grass			G?	SE4	lu	
<i>Milium effusum</i>	wood millet			G5	S4S	R3	

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					5		
<i>Muhlenbergia frondosa</i>	leafy satin grass			G5	S4	VU	
<i>Muhlenbergia mexicana</i> var. <i>mexicana</i>	Mexican satin grass			G5T?	S5	U	
<i>Panicum acuminatum</i> var. <i>acuminatum</i>	acuminate panic grass			G5T	S5	C	
<i>Panicum capillare</i>	witch grass			G5	S5	C	
<i>Panicum columbianum</i> var. <i>siccanum</i>	panic grass			G5T5	S4	R1	
* <i>Panicum dichotomiflorum</i>	fall panicum			G5	SE5	lc	
<i>Panicum latifolium</i>	broad-leaved panic grass			G5	S4	U	
<i>Panicum sphaerocarpon</i>	rough-fruited panic grass			G5	S3	R5	
<i>Panicum virgatum</i>	switch grass			G5	S4	U	
<i>Paspalum setaceum</i>	bristle-like paspalum			G5	S2	R4	
<i>Phalaris arundinacea</i>	reed canary grass			G5	S5	C	
* <i>Phleum pratense</i>	timothy			G?	SE5	lc	
<i>Phragmites australis</i>	common reed			G5	S5	C	
<i>Poa compressa</i>	Canada blue grass			G?	SE5	C	
<i>Poa palustris</i>	fowl meadow grass			G5	S5	VU	
<i>Poa pratensis</i> ssp. <i>pratensis</i>	Kentucky bluegrass			G5T5?	S5	C	
<i>Schizachyrium scoparium</i>	little bluestem			G5	S4	U	
* <i>Setaria faberi</i>	giant foxtail			G?	SE4	lc	
* <i>Setaria pumila</i>	yellow foxtail			G?	SE5	lc	
* <i>Setaria viridis</i>	green foxtail			G?	SE5	lc	
<i>Sorghastrum nutans</i>	Indian grass			G5	S4	R5	
<i>Spartina pectinata</i>	tall cord grass			G5	S4	U	
TYPHACEAE	CAT-TAIL FAMILY						
<i>Typha angustifolia</i>	narrow-leaved cattail			G5	SE5	C	
<i>Typha latifolia</i>	broad-leaved cattail			G5	S5	U	
LILIACEAE	LILY FAMILY						
<i>Aletris farinosa</i>	colic-root	THR	THR	G5	S2	R4	SARA (1), PA
<i>Allium canadense</i> var. <i>canadense</i>	Canada wild onion			G5T5	S5	C	
* <i>Asparagus officinalis</i>	garden asparagus			G5?	SE5	lc	
* <i>Convallaria majalis</i>	lily-of-the-valley			G5	SE5	lr	
<i>Erythronium americanum</i> ssp. <i>americanum</i>	yellow trout lily			G5T5	S5	C	
* <i>Hemerocallis fulva</i>	orange day-lily			G?	SE5	lu	
<i>Hypoxis hirsuta</i>	yellow star-grass			G5	S3	R5	

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<i>Maianthemum racemosum</i> ssp. <i>racemosum</i>	false Solomon's seal			G5T5	S5	C	
<i>Maianthemum stellatum</i>	star-flowered Solomon's seal			G5	S5	C	
<i>Muscari botryoides</i>	grape hyacinth			G?	SE3	?	
* <i>Narcissus pseudonarcissus</i>	daffodil			G?	SE2	lr	
* <i>Ornithogalum umbellatum</i>	summer snowflake			G2?	SE3	lr	
<i>Polygonatum biflorum</i>	hairy Solomon's seal			G5	S4	C	
<i>Polygonatum pubescens</i>	hairy Solomon's seal			G5	S5	C	
<i>Streptopus roseus</i>	rose twisted-stalk			G5	S5	?	
<i>Trillium grandiflorum</i>	white trillium			G5	S5	C	
<i>Uvularia sessilifolia</i>	sessile-leaved bellwort			G5	S4	R5	
IRIDACEAE	IRIS FAMILY						
<i>Iris virginica</i>	southern blue-flag			G5	S5	C	
<i>Sisyrinchium albidum</i>	white blue-eyed-grass			G5?	S1	R4	
<i>Sisyrinchium angustifolium</i>	pointed blue-eyed-grass			G5	S4	C	
SMILACACEAE	CATBRIER FAMILY						
<i>Smilax herbacea</i>	herbaceous carrion flower			G5	S4	R1	
<i>Smilax hispida</i>	bristly greenbrier			G5	S4	C	
<i>Smilax lasioneura</i>	hairy-nerved carrion flower			G5	S4	C	
DIOSCOREACEAE	YAM FAMILY						
<i>Dioscorea quaternata</i>	wild yam-root			G5	S4	C	
ORCHIDACEAE	ORCHID FAMILY						
<i>Cypripedium calceolus</i> var. <i>pubescens</i>	large yellow lady's slipper			G5T	S5	R2	
* <i>Epipactis helleborine</i>	common helleborine			G?	SE5	lr	
SAPINDACEAE	SOAPBERRY FAMILY						
* <i>Koelreuteria paniculata</i>	Golden rain tree					?	
TAMARICACEAE	TAMARISK FAMILY						
* <i>Tamarix ramosissima</i>	Tamarisk					?	
MORACEAE	FIG FAMILY						
* <i>Ficus</i> sp.	Fig tree					?	

* Species introduced to Ontario

Local Status Distribution and Status of the Vascular Plants of Southwestern Ontario

Status of the plants in Essex County was thoroughly investigated by the Ontario Ministry of Natural Resources through the use of plant stations. Plant stations are locations that are defined as a 1 km radius around a plant occurrence. Plant rarity is based on the number of stations for a native plant species. A variable cut-off is used for the number of stations based on the size of the municipality or site district and by the intensity of fieldwork that has been carried out in the area.

R - Native and rare, based on 5 or fewer recent (post-1963) stations. A station is a population separated by at least 1 kilometer from the nearest population of the same species.

R# - Rare, number of recent stations.

R? - Rare, exact number of stations not known.

Rh - Rare, known only from historic (pre-1964) record.

VU - Native and very uncommon, based on 6 to 8 recent stations.

U - Native and uncommon, based on 9 to 15 recent stations.

C - Native and common, based on more than 15 recent stations.

I - Introduced and persisting of cultivation.

Ir - Introduced and rare, based on 5 or fewer recent stations.

Ivu - Introduced and very uncommon, based on 6 to 8 recent stations.

Iu - Introduced and uncommon, based on 9 to 15 recent stations.

Ic - Introduced and common, based on more than 15 recent stations.

Ih - Introduced and known only from historic (pre-1964) records

? - Questionable record. These are typically literature reports for which no specimen is known, or other records for which there is some reason to doubt either the identity or origin of the record

? - Not listed as present within Essex County, but was found by LGL staff in 2006.

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APPENDIX C

APPENDIX C
SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
Terrestrial-Natural/Semi-Natural				
TPO	OPEN TALL-GRASS PRAIRIE			
TPO2-1	Fresh - Moist Tallgrass Prairie	<p>Canopy: Eastern cottonwood (<i>Populus deltoides</i> ssp. <i>deltoides</i>) is dominant.</p> <p>Understorey: Silky dogwood (<i>Cornus amomum</i> ssp. <i>obliqua</i>) is dominant with gray dogwood (<i>Cornus foemina</i> ssp. <i>racemosa</i>) and multiflora rose (<i>Rosa multiflora</i>) as associates.</p> <p>Ground Cover: Big bluestem (<i>Andropogon gerardii</i>), Canadian tick-trefoil (<i>Desmodium canadense</i>), common reed (<i>Phragmites australis</i>), gray goldenrod (<i>Solidago nemoralis</i> ssp. <i>nemoralis</i>), gray-headed coneflower (<i>Ratibida pinnata</i>), Indian grass (<i>Sorghastrum nutans</i>), ironweed (<i>Vernonia gigantea</i>), little bluestem (<i>Schizachyrium scoparium</i>), switch grass (<i>Panicum virgatum</i>), Virginia broom-sedge (<i>Andropogon virginicus</i>), Virginia mountain-mint (<i>Pycnanthemum virginianum</i>), wild bergamot (<i>Monarda fistulosa</i>) and wild carrot (<i>Daucus carota</i>) are abundant with occasional blood-red milkwort (<i>Polygala sanguinea</i>), butterfly-weed (<i>Asclepias tuberosa</i>), calico aster (<i>Aster lateriflorus</i> var. <i>lateriflorus</i>), Canada bluegrass (<i>Poa compressa</i>), Canada goldenrod (<i>Solidago canadensis</i>), colic-root (<i>Aletris farinosa</i>), cut-leaved water-horehound (<i>Lycopus americanus</i>), early goldenrod (<i>Solidago juncea</i>), field thistle (<i>Cirsium discolor</i>), flowering spurge (<i>Euphorbia corollata</i>), Kentucky bluegrass (<i>Poa pratensis</i> ssp. <i>pratensis</i>), large purple agalinis (<i>Agalinis purpurea</i>), New England aster (<i>Aster novae-angliae</i>), orchard grass (<i>Dactylis glomerata</i>), prickly raspberry (<i>Rubus flagellaris</i>), rough goldenrod (<i>Solidago rugosa</i> ssp. <i>rugosa</i>), rough-headed bush-clover (<i>Lespedeza capitata</i>), slender-leaved agalinis (<i>Agalinis tenuifolia</i> var. <i>macrophylla</i>), smooth blue aster (<i>Aster laevis</i> var. <i>laevis</i>), spiked blazing star (<i>Liatris spicata</i>), stiff-leaved goldenrod (<i>Solidago rigida</i> ssp. <i>rigida</i>), swamp milkweed (<i>Asclepias incarnata</i> ssp. <i>incarnata</i>), tall cord grass (<i>Spartina pectinata</i>), tall fescue (<i>Festuca arundinacea</i>), tall goldenrod (<i>Solidago altissima</i> var. <i>altissima</i>), tall tickseed (<i>Coreopsis tripteris</i>), tall wild sunflower (<i>Helianthus giganteus</i>), Virginia culver's root (<i>Veronicastrum virginicum</i>), white heath aster (<i>Aster ericoides</i> ssp. <i>ericoides</i>), and wing-angled loosestrife (<i>Lythrum alatum</i>).</p>	<ul style="list-style-type: none"> - Tree cover <= 25%; shrub cover <= 25%. - Subject to seasonal extremes in moisture conditions; spring flooding and summer drought (TPO). - Dominated by Prairie graminoids and forbs (2-1). - Pioneer community resulting from, or maintained by, frequent disturbance by fire. 	<p>ANS1A, BBA4EC, BBA4MB, ESA1, LAM1, MAL1D, MAL3B, NAR4A, NAR4B, NAR15, NAR16, NCH2E, NCH4B, NCH4Z, NCH12B, NSG7A, NSG7C, OAK3, OAK4, RED5, RED12, YWK1B</p>

¹ Lee, H.T., W.D. Bakowsky, J. Riley, J. Bowles, M. Puddister, P. Uhlig and S. McMurray. 1998. Ecological Land Classification for Southern Ontario: First Approximation and Its Application. Ontario Ministry of Natural Resources, Southcentral Sciences Section, Science Development and Transfer Branch. SCSS Field Guide FG-02. North Bay, Ontario.

APPENDIX C

SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
TPS	TALL-GRASS SAVANNAH			
TPS2-1	Fresh - Moist Pin Oak - Bur Oak Tallgrass Savannah	<p>Canopy: Pin oak (<i>Quercus palustris</i>) and bur oak (<i>Quercus macrocarpa</i>) are co-dominant with American elm (<i>Ulmus americana</i>), eastern cottonwood, red ash (<i>Fraxinus pennsylvanica</i>) and shagbark hickory (<i>Carya ovata</i> var. <i>ovata</i>) as associates.</p> <p>Understorey: American hazel (<i>Corylus americana</i>), black ash (<i>Fraxinus nigra</i>), black locust (<i>Robinia pseudo-acacia</i>), common buckthorn (<i>Rhamnus cathartica</i>), Drummond's dogwood (<i>Cornus drummondii</i>), gray dogwood, Manitoba maple (<i>Acer negundo</i>), red ash, staghorn sumac (<i>Rhus typhina</i>) and Tartarian honeysuckle (<i>Lonicera tatarica</i>).</p> <p>Ground Cover: Common dandelion (<i>Taraxacum officinale</i>), eastern cottonwood, gray goldenrod, Pennsylvania sedge (<i>Carex pensylvanica</i>), scarlet strawberry (<i>Fragaria virginiana</i> ssp. <i>virginiana</i>), spotted crane's bill (<i>Geranium maculatum</i>), tall tickseed, yellow avens (<i>Geum aleppicum</i>) and yellow trout lily (<i>Erythronium americanum</i> ssp. <i>americanum</i>).</p>	<ul style="list-style-type: none"> - 25% < Tree Cover <= 35% with prairie graminoids and forbs in the Ground Cover (TPS). - Seasonal flooding followed by summer drought. - Fresh - Moist conditions, dominated by Pin Oak and Bur Oak (2-1). - Young Community. 	ESA5
TPW	TALL-GRASS WOODLAND			
TPW2-1	Fresh - Moist Black Oak - White Oak Tallgrass Woodland	<p>Canopy: Black oak (<i>Quercus velutina</i>) and pin oak are dominant with black cherry (<i>Prunus serotina</i>), eastern cottonwood, freeman's maple (<i>Acer X freemanii</i>) and white oak (<i>Quercus alba</i>) as associates.</p> <p>Understorey: Black cherry is dominant with American hazel, gray dogwood, prairie rose (<i>Rosa setigera</i>), riverbank grape (<i>Vitis riparia</i>), sassafras (<i>Sassafras albidum</i>), staghorn sumac, thimble-berry (<i>Rubus occidentalis</i>) and white mulberry (<i>Morus alba</i>) as associates.</p> <p>Ground Cover: Eastern bracken-fern (<i>Pteridium aquilinum</i> var. <i>latiusculum</i>), four-flowered loosestrife (<i>Lysimachia quadriflora</i>), glaucous white rattlesnake-root (<i>Prenanthes racemosa</i> ssp. <i>racemosa</i>), many-flowered agrimony (<i>Agrimony parviflora</i>), orchard grass, spotted crane's bill and swamp white oak (<i>Quercus bicolor</i>).</p>	<ul style="list-style-type: none"> - 35% < Tree Cover <= 60% with prairie graminoids and forbs in the Ground Cover (TPS). - Seasonal flooding followed by summer drought. - Fresh - Moist conditions, dominated by Black Oak and White Oak (2-1). - Mid-age to Mature Community. 	ANS1, ANS2C
TPW2-2	Fresh - Moist Pin Oak Tallgrass Woodland	<p>Canopy: Pin oak is dominant with black cherry and freeman's maple as associates.</p> <p>Understorey: Black cherry is dominant with American hazel, gray dogwood, prairie rose, riverbank grape, sassafras, staghorn sumac, thimble-berry and white mulberry as associates.</p> <p>Ground Cover: Eastern bracken-fern, many-flowered agrimony, orchard grass, spotted crane's bill and swamp white oak.</p>	<ul style="list-style-type: none"> - 35% < Tree Cover <= 60% with prairie graminoids and forbs in the Ground Cover (TPS). - Seasonal flooding followed by summer drought. - Fresh - Moist conditions, dominated by Pin Oak (2-2). - Mid-age to Mature Community. 	ANS2

APPENDIX C
SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
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ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
FOD	DECIDUOUS FOREST			
FOD1-3	Dry - Fresh Black Oak Deciduous Forest	<p>Canopy: Black oak, pin oak, freeman's maple and eastern cottonwood are dominant with American elm, black cherry and swamp white oak as associates.</p> <p>Subcanopy: American elm, black oak, black cherry and red maple (<i>Acer rubrum</i>).</p> <p>Understorey: Black cherry and common reed are co-dominant with American hazel, gray dogwood, narrow-leaved crabapple (<i>Malus coronaria</i>), red ash and sassafras as associates.</p> <p>Ground Layer: Common reed, eastern bracken-fern (<i>Pteridium aquilinum</i> var. <i>latiusculum</i>), inserted Virginia-creeper (<i>Parthenocissus inserta</i>), Pennsylvania sedge and riverbank grape are dominant with garlic mustard (<i>Alliaria petiolata</i>), spotted crane's bill and wood anemone (<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>) as associates.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Black Oak is dominant (1-3). - Sand and loam soils with rapid drainage in upper to middle slope positions (Dry-Fresh). - Mature Community. 	MAL9, MAL11, YWK2
FOD1-4	Dry - Fresh Mixed Oak Deciduous Forest	<p>Canopy: Black oak and white oak are dominant with eastern cottonwood, pin oak and swamp white oak as associates.</p> <p>Subcanopy: Black oak and pin oak are dominant with abundant black cherry.</p> <p>Understorey: American hazel and gray dogwood are co-dominant.</p> <p>Ground Layer: Canada goldenrod, common reed, eastern bracken-fern, inserted Virginia-creeper, interrupted fern (<i>Osmunda claytoniana</i>), rose twisted-stalk (<i>Streptopus roseus</i>), Royal fern (<i>Osmunda regalis</i>) and spotted crane's bill are dominant.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - More than two Oak species are dominant (1-4). - Sand and loam soils with rapid drainage in upper to middle slope positions (Dry-Fresh). - Mid-age to Mature Community. 	MAL1, MAL1E
FOD2-2	Dry - Fresh Oak - Hickory Deciduous Forest	<p>Canopy: Black oak, swamp white oak and shagbark hickory are dominant with bur oak, pin oak, red oak (<i>Quercus rubra</i>), freeman's maple and white oak as associates.</p> <p>Subcanopy: Black cherry and freeman's maple are co-dominant.</p> <p>Understorey: Black cherry and choke cherry (<i>Prunus virginiana</i> ssp. <i>virginiana</i>) are co-dominant with American elm and red ash as associates.</p> <p>Ground Layer: Garlic mustard, large-leaved aster (<i>Aster macrophyllus</i>), spotted crane's bill and yellowish enchanter's nightshade (<i>Circaea lutetiana</i> ssp. <i>canadensis</i>) are dominant with common blackberry (<i>Rubus allegheniensis</i>), inserted Virginia-creeper, Pennsylvania sedge, western poison-ivy (<i>Rhus rydbergii</i>), wild red raspberry (<i>Rubus idaeus</i> ssp. <i>melanolasius</i>) and yellow trout lily as associates.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Oak and Hickory are dominant (2-2). - Sand and loam soils with rapid drainage in upper to middle slope positions (Dry-Fresh). - Mature Community. 	ESA2

APPENDIX C

SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
FOD4	Dry - Fresh Deciduous Forest	<p>Canopy: Manitoba maple, black locust and eastern cottonwood are dominant with black cherry, freeman's maple, American elm and black walnut (<i>Juglans nigra</i>) as associates.</p> <p>Subcanopy: Black cherry, Manitoba maple and white mulberry.</p> <p>Understorey: Manitoba maple is dominant with abundant black cherry, prairie rose, Tartarian honeysuckle and white mulberry with some gray dogwood, poison-ivy (<i>Rhus radicans</i>), red ash, riverbank grape, smooth sumac (<i>Rhus glabra</i>), staghorn sumac and freeman's maple.</p> <p>Ground Layer: Garlic mustard is dominant with common dandelion (<i>Taraxacum officinale</i>), cleavers (<i>Galium aparine</i>) and inserted Virginia-creeper.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Tree species associations that are either relatively uncommon or a result of disturbance or management (4). - Sand and loam soils with rapid drainage in upper to middle slope positions (Dry-Fresh). - Young Community. 	BBA1A, BBA7, BBA8, BBA12, BBBA14, MAL5, NCH7H, NGM1
FOD7-1	Fresh - Moist White Elm Lowland Deciduous Forest	<p>Canopy: American elm is dominant with abundant standing snags of red ash with some black cherry, eastern cottonwood, pin oak and swamp white oak.</p> <p>Subcanopy: American elm, pin oak and swamp white oak are dominant.</p> <p>Understorey: Gray dogwood is dominant with American hazel, choke cherry, prairie rose and Tartarian honeysuckle as associates.</p> <p>Ground Layer: Common dandelion, inserted Virginia-creeper, Manitoba maple, marsh bedstraw (<i>Galium palustre</i>), marsh fern (<i>Thelypteris palustris</i> var. <i>pubescens</i>) and Sensitive fern.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Lowland deciduous forest (7), dominated by White Elm (-1). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Mid-age community. 	NAR12
FOD7-2	Fresh - Moist Ash Lowland Deciduous Forest	<p>Canopy: Red ash is dominant with American elm, eastern cottonwood, black cherry and red maple as associates.</p> <p>Subcanopy: American elm, black cherry, glossy buckthorn (<i>Rhamnus frangula</i>), Manitoba maple, pin oak and red ash.</p> <p>Understorey: Black walnut, common buckthorn, choke cherry, gray dogwood, multiflora rose, nannyberry (<i>Viburnum lentago</i>), prairie rose, red ash, staghorn sumac and Tartarian honeysuckle.</p> <p>Ground Layer: Common dandelion, inserted Virginia-creeper, Manitoba maple, wild parsnip (<i>Pastinaca sativa</i>) and yellowish enchanter's nightshade.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Lowland deciduous forest (7), dominated by Red Ash (-2). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Young to Mid-age Community. 	NAR13, NSG3

APPENDIX C
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ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
FOD7-3	Fresh - Moist Willow Lowland Deciduous Forest	<p>Canopy: Black willow (<i>Salix nigra</i>) is dominant with black cherry and Manitoba maple as associates.</p> <p>Subcanopy: Manitoba maple is dominant with black cherry, Drummond's dogwood, red ash and white mulberry as associates.</p> <p>Understorey: Common buckthorn, gray dogwood, and Tartarian honeysuckle are dominant with American elm, Black walnut, choke cherry, inserted Virginia-creeper, multiflora rose, nannyberry (<i>Viburnum lentago</i>), riverbank grape, prairie rose, red ash, red currant (<i>Ribes rubrum</i>) and staghorn sumac as associates.</p> <p>Ground Layer: Awnless brome (<i>Bromus inermis</i> ssp. <i>inermis</i>), Canada goldenrod, Canada thistle (<i>Cirsium arvense</i>), Common dandelion, inserted Virginia-creeper, Manitoba maple, orchard grass, upright yellow wood-sorrel (<i>Oxalis stricta</i>), wild parsnip (<i>Pastinaca sativa</i>) and yellowish enchanter's nightshade.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Lowland deciduous forest (7), dominated by Black Willow (-3). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Mature Community. 	LAM4A
FOD7-4	Fresh - Moist Black Walnut Lowland Deciduous Forest	<p>Canopy: Black walnut is dominant with American elm, black cherry, black locust, common hackberry (<i>Celtis occidentalis</i>), eastern cottonwood, Manitoba maple, silver poplar (<i>Populus alba</i>) and freeman's maple as associates.</p> <p>Subcanopy: Black cherry, black walnut, common hackberry, Manitoba maple and white mulberry.</p> <p>Understorey: Black cherry, gray dogwood and Manitoba maple are dominant with amur honeysuckle (<i>Lonicera maackii</i>), black locust, choke cherry, common elderberry (<i>Sambucus canadensis</i>), common hackberry, narrow-leaved crabapple, poison-ivy, prairie rose, riverbank grape, sassafras, freeman's maple, Tartarian honeysuckle, thimble-berry and tree-of-heaven as associates.</p> <p>Ground Layer: Garlic mustard, lily-of-the-valley and inserted Virginia-creeper are dominant with Canada anemone (<i>Anemone canadensis</i>), cleavers, common burdock (<i>Arctium minus</i> ssp. <i>minus</i>), common motherwort (<i>Leonurus cardiaca</i> ssp. <i>cardiaca</i>), hound's-tongue (<i>Cynoglossum officinale</i>), Philadelphia fleabane (<i>Erigeron philadelphicus</i> ssp. <i>philadelphicus</i>), riverbank grape, scarlet strawberry, star-flowered Solomon's seal (<i>Maianthemum stellatum</i>), upright yellow wood-sorrel, white avens (<i>Geum canadense</i>) and yellow avens as associates.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Lowland deciduous forest (7), dominated by Black Walnut (-4). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Mid-age Community. 	BBA2, BBA13

APPENDIX C

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ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
FOD8	Fresh - Moist Poplar-Sassafras Deciduous Forest	<p>Canopy: Eastern cottonwood is dominant with abundant pin oak and freeman's maple with some black cherry, black oak, red ash, red oak and white oak.</p> <p>Subcanopy: Manitoba maple and red ash are dominant with black cherry, black willow, peach-leaved willow (<i>Salix amygdaloides</i>), pin oak, sassafras, freeman's maple and white mulberry as associates.</p> <p>Understorey: Gray dogwood, black cherry and Manitoba maple are dominant with black willow, choke cherry, common buckthorn, Drummond's dogwood, nannyberry, red ash, sassafras and wild black currant (<i>Ribes americanum</i>) as associates.</p> <p>Ground Layer: Canada bluegrass, Canada goldenrod, common reed, garlic mustard, inserted Virginia-creeper, Pennsylvania sedge, riverbank grape, spotted crane's bill and yellowish enchanter's nightshade.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Dominated by Poplars and Sassafras (8). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Young to Mature Community. 	MAL1B, NAR3A, NAR6A, NAR6B, NSG6, NSG10, OAK2
FOD8-1	Fresh - Moist Poplar Deciduous Forest	<p>Canopy: Eastern cottonwood is dominant with American elm, Manitoba maple and trembling aspen (<i>Populus tremuloides</i>) as associates.</p> <p>Subcanopy: Gray dogwood and Manitoba maple are dominant.</p> <p>Understorey: American hazel, black cherry, choke cherry, common buckthorn, gray dogwood, Manitoba maple, prairie rose and red ash.</p> <p>Ground Layer: Common dandelion, inserted Virginia-creeper, old-field cinquefoil (<i>Potentilla simplex</i>), sensitive fern, yellow trout lily and yellowish enchanter's nightshade.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Dominated by Poplars (8-1). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Young Community. 	HCL2, NAR8, NAR9
FOD8-2	Fresh - Moist Sassafras Deciduous Forest	<p>Canopy: Sassafras is dominant with black cherry, eastern cottonwood and pin oak.</p> <p>Subcanopy: Black cherry and sassafras are dominant.</p> <p>Understorey: Black cherry, choke cherry, common buckthorn and sassafras.</p> <p>Ground Layer: Cleavers, inserted Virginia-creeper, rose twisted-stalk, sessile-leaved bellwort (<i>Uvularia sessilifolia</i>), spotted crane's bill, wild columbine (<i>Aquilegia canadensis</i>) and yellow trout lily.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Dominated by Sassafras (8-2). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Young Community. 	HCL1A, HCL10

APPENDIX C

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ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest	<p>Canopy: Eastern cottonwood, pin oak and freeman's maple are dominant with black cherry, black oak and red oak.</p> <p>Subcanopy: American elm, black cherry, Manitoba maple, red ash and white mulberry.</p> <p>Understorey: American hazel, black cherry, gray dogwood and multiflora rose.</p> <p>Ground Layer: Inserted Virginia-creeper, Pennsylvania sedge, prickly raspberry, riverbank grape and yellowish enchanter's nightshade.</p>	<ul style="list-style-type: none"> - Tree cover > 60 % (FO). - Deciduous trees > 75 % of canopy cover (D). - Dominated by Oak and Maple (9). - Sand, loam and clay soils that are poorly drained, in lower slope, mid slope, and bottomland positions (Fresh-Moist). - Young to Mid-age Community. 	NAR7, NAR10, NAR11, NAR20, NSG12
Terrestrial/Cultural				
CUP	CULTURAL PLANTATION			
CUP1-8	Red Oak Deciduous Plantation	<p>Canopy: Red oak is dominant with freeman's maple as a secondary.</p> <p>Subcanopy: Red Oak is dominant.</p> <p>Understorey: Gray dogwood and red ash are co-dominant.</p> <p>Ground Layer: Kentucky bluegrass, choke cherry and creeping Charlie (<i>Glechoma hederacea</i>) are dominant.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - Planted tree cover > 60% (P). - Deciduous trees > 75% of canopy cover (1), dominated by Red Oak (-8). - Mid-age community. 	NAR3B
CUP3	Coniferous Plantation	<p>Canopy: Eastern white cedar (<i>Thuja occidentalis</i>) is dominant with eastern white pine (<i>Pinus strobus</i>) and red ash as associates.</p> <p>Understorey: Red ash and riverbank grape are co-dominant.</p> <p>Ground Cover: Field horsetail (<i>Equisetum arvense</i>) is dominant.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - Planted tree cover > 60% (P). - Coniferous trees > 75% of canopy cover (3). - Young community. 	NCH5
CUP3-3	Scotch Pine Coniferous Plantation	<p>Canopy: Scotch pine (<i>Pinus sylvestris</i>) is dominant with Manitoba maple, black oak and eastern cottonwood as associates.</p> <p>Subcanopy: Black cherry, red ash and common crabapple (<i>Malus pumila</i>).</p> <p>Understorey: Red ash, American hazel and gray dogwood.</p> <p>Ground Cover: Field horsetail is dominant.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - Planted tree cover > 60% (P). - Coniferous trees > 75% of canopy cover (3), dominated by Scotch Pine (-3). - Young community. 	NAR2

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ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
CUM	CULTURAL MEADOW			
CUM1-1	Dry - Moist Old Field Meadow	<p>Canopy: Wild carrot, common reed, tall goldenrod, orchard grass, Canada goldenrod, Kentucky bluegrass, Canada thistle, ribgrass (<i>Plantago lanceolata</i>), common St. John's-wort (<i>Hypericum perforatum</i>), common yarrow (<i>Achillea millefolium</i> ssp. <i>millefolium</i>), white heath aster white sweet-clover (<i>Melilotus alba</i>), wild bergamot, Canada bluegrass common motherwort (<i>Leonurus cardiaca</i> ssp. <i>cardiaca</i>), creeping Charlie, garlic mustard, awnless brome, common dandelion, field horsetail, ironweed, prickly raspberry, quack grass (<i>Elymus repens</i>), scarlet strawberry, sensitive fern (<i>Onoclea sensibilis</i>) and shepherd's purse (<i>Capsella bursa-pastoris</i>).</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - Tree cover and shrub cover < 25% (M). - Parent mineral material or mineral soils (1). - This community can occur on a wide range of soil moisture regimes (Dry-Moist) (-1). - Pioneer community resulting from, or maintained by, anthropogenic-based influences. 	<p>BBA3A, BBA4E, BBA4EB, BBA4F, BBA4G, BBA4H, BBA4I, BBA4J, BBA4K, BBA4M, BBA4S, BBA5, BBA7B, BBA8B, BBA16B, HCL7, HCL9, HWY1, HWY5, LAM4F, LAM4G, MAL1A, MAL3C, MAL8, NAR4C, NCH2A, NCH2B, NCH2C, NCH2D, NCH4A, NCH4Y, NSG7, OAK1A, RED2B, RED10, RED11, RED15, YWK3, YWK3A, YWK6, YWK8</p>
CUT	CULTURAL THICKET			
CUT1	Mineral Cultural Thicket	<p>Canopy: Eastern cottonwood, red ash, American elm, freeman's maple, Cockspur thorn (<i>Crataegus crus-galli</i>) and pin oak.</p> <p>Understorey: Gray dogwood, staghorn sumac, common buckthorn, Manitoba maple, red ash, riverbank grape, silky dogwood and Tartarian honeysuckle.</p> <p>Ground Cover: Scarlet strawberry, Canada goldenrod, common dandelion, garlic mustard and sensitive fern.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - Tree cover <= 25%; shrub cover > 25% (T). - Parent mineral material or mineral soils (1). - Young community resulting from, or maintained by, anthropogenic-based influences. 	<p>BBA17, ESA3, ESA4, HWY4, NAR1, NAR3C, NAR5, NAR17, NAR19, NCH1B, NCH1C, NCH1E, NCH1F, NCH12, NSG1, NSG11, RED3, RED13</p>

APPENDIX C
SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
CUT1-4	Gray Dogwood Cultural Thicket	<p>Canopy: Eastern cottonwood, red ash, pin oak, American elm and freeman's maple.</p> <p>Understorey: Gray dogwood is dominant with staghorn sumac and Drummond's dogwood as associates.</p> <p>Ground Cover: Common reed, common cinquefoil (<i>Potentilla canadensis</i>) and wild carrot.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - Tree cover <= 25%; shrub cover > 25% (T). - Parent mineral material or mineral soils (1), dominated by Gray Dogwood (-4). - Young community resulting from, or maintained by, anthropogenic-based influences. 	BBA3, HCL3, HCL6, NAR6C, NCH1A, NCH1G, NSG2
CUS	CULTURAL SAVANNAH			
CUS1	Mineral Cultural Savannah	<p>Canopy: Manitoba maple, black walnut, eastern cottonwood, freeman's maple, tree-of-heaven (<i>Ailanthus altissima</i>) and white mulberry.</p> <p>Understorey: Manitoba maple, Tartarian honeysuckle, Drummond's dogwood, gray dogwood, prairie rose, Siberian elm, American elm, red ash and staghorn sumac.</p> <p>Ground Cover: Orchard grass, wild carrot, common mullein (<i>Verbascum thapsus</i>), common reed, white clover (<i>Trifolium repens</i>), awnless brome, Canada goldenrod, catnip (<i>Nepeta cataria</i>), common heal-all, inserted Virginia-creeper, tall goldenrod and white heath aster.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - 25% < Tree Cover <= 35% (S). - Parent mineral material or mineral soils (1). - Young community resulting from, or maintained by, anthropogenic-based influences. 	BBA1, BBA1B, BBA4B, BBA4C, BBA4D, BBA4L, BBA4N, BBA4P, BBA4R, LAM3, MAL6, NCH7, NCH7G, NCH7J, NSG5
CUS1-1	Hawthorn Mineral Cultural Savannah	<p>Canopy: Eastern cottonwood is dominant with Manitoba maple, red ash and black locust as associates.</p> <p>Understorey: Staghorn sumac is dominant with gray dogwood, cockspur thorn and eastern cottonwood as associates.</p> <p>Ground Cover: Common reed and Kentucky bluegrass are co-dominant with tall fescue, white sweet-clover, tall goldenrod and Orchard grass as associates.</p>	<ul style="list-style-type: none"> - Cultural communities (CU). - 25% < Tree Cover <= 35% (S). - Parent mineral material or mineral soils (1), dominated by hawthorn and a mixture of other woody plants. - Young community resulting from, or maintained by, anthropogenic-based influences. 	MAL3

APPENDIX C
SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
CUW	CULTURAL WOODLAND			
CUW1	Mineral Cultural Woodland	<p>Canopy: Eastern cottonwood, freeman's maple, Manitoba maple, red ash, American elm, black cherry, black locust, black oak, pin oak, Siberian elm, silver maple (<i>Acer saccharinum</i>), tree-of-heaven, weeping willow (<i>Salix X sepulcralis</i>) and white mulberry.</p> <p>Subcanopy: Manitoba maple, red ash, American elm, Drummond's dogwood, freeman's maple and white mulberry.</p> <p>Understorey: Black cherry, gray dogwood, white mulberry, common buckthorn, red ash, American elm, common crabapple, eastern red cedar, guelder rose (<i>Viburnum opulus</i>), Japanese barberry (<i>Berberis thunbergii</i>), Manitoba maple, multiflora rose, nannyberry (<i>Viburnum lentago</i>), prairie rose, riverbank grape, Siberian elm, silky dogwood, staghorn sumac, Tartarian honeysuckle and thimble-berry.</p> <p>Ground Cover: Garlic mustard, common reed, inserted Virginia-creeper, yellowish enchanter's nightshade, calico aster, Canada bluegrass, Canada goldenrod, common dandelion, Indian hemp (<i>Apocynum cannabinum</i> var. <i>cannabinum</i>), Kentucky bluegrass, many-flowered agrimony, old-field cinquefoil, orchard grass, scarlet strawberry, sensitive fern, spotted crane's-bill, tall goldenrod, tall hairy agrimony (<i>Agrimonia gryposepala</i>), wild carrot and yellow avens.</p>	<ul style="list-style-type: none"> - Cultural communities (CU) - 35% < Tree Cover <= 60% (W). - Parent mineral material or mineral soils (1). - Young community resulting from, or maintained by, anthropogenic-based influences. 	AB01, BBA4A, BBA4JB, BBA5B, BBA6, BBA9, BBA16, HCL1, HWY2, LAM2, LAM4B, LAM4D, LAM4E, LAM5, LAM6, LAM7, MAL1C MAL12, , NAR3D, NAR14, NCH1, NCH1D, NCH3A, NCH7B, NCH7C, NCH7D, NCH7E, NCH7F, NCH8, NCH11, NGM2, NGM3, NSG4, NSG7B, NSG13, NSG14, NSG15, OAK1B, OAK2B, OAK2C, RED2A, RED9, YWK1, YWK1C, YWK4, YWK5

APPENDIX C
SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
Wetland				
SWD DECIDUOUS SWAMP				
SWD1-3	Pin Oak Mineral Deciduous Swamp	<p>Canopy: Pin oak is dominant with abundant eastern cottonwood with some American elm, big shellbark hickory, black cherry, black oak, bur oak, Manitoba maple, red ash, shumard oak (<i>Quercus shumardi</i>), freeman's maple, swamp white oak, trembling aspen and white oak.</p> <p>Subcanopy: Pin oak is dominant with American elm, Manitoba maple, red ash, freeman's maple and swamp white oak as associates.</p> <p>Understorey: American hazel, big shellbark hickory (<i>Carya laciniosa</i>), black cherry, choke cherry, common buckthorn, gray dogwood, Manitoba maple, narrow-leaved crabapple and red ash.</p> <p>Ground Cover: Eastern cottonwood seedlings, inserted Virginia-creeper, marsh fern, Pennsylvania sedge, prickly raspberry, sensitive fern, spotted crane's bill, western poison-ivy, wood anemone, yellowish enchanter's nightshade and yellow trout lily.</p>	<ul style="list-style-type: none"> - Standing water >20% of ground coverage dominated by hydrophytic shrub and tree species (SW). - Tree cover > 25% with deciduous tree species > 75% of canopy cover (D). - Mineral soil (1). - Pin Oak is dominant (-3). 	HCL5, RED2, RED4, RED8
SWD3-3	Freeman's Maple Mineral Deciduous Swamp	<p>Canopy: Eastern cottonwood and freeman's maple are dominant with American basswood, American elm, black cherry, Manitoba maple, pin oak, red ash and trembling aspen as associates.</p> <p>Subcanopy: Swamp maple is dominant with American elm, Manitoba maple, pin oak and red ash as associates.</p> <p>Understorey: Red ash, silky dogwood and freeman's maple are dominant with Black cherry, common buckthorn, gray dogwood, guelder rose, Manitoba maple, Russian olive and staghorn sumac as associates.</p> <p>Ground Layer: Common reed, garlic mustard, inserted Virginia-creeper, riverbank grape, sensitive fern and wood anemone are dominant.</p>	<ul style="list-style-type: none"> - Standing water >20% of ground coverage dominated by hydrophytic shrub and tree species (SW). - Tree cover > 25% with deciduous tree species > 75% of canopy cover (D). - Mineral soil (3). - Freeman's Maple is dominant (-3). 	MAL10, NCH3, NCH3B, NSG8, OAK2A, RED6, RED7
MAM MEADOW MARSH				
MAM2	Mineral Meadow Marsh	<p>Canopy: Common reed is dominant with broad-leaved cattail (<i>Typha latifolia</i>), gray dogwood, Manitoba maple, narrow-leaved cattail (<i>Typha angustifolia</i>) and riverbank grape as associates.</p> <p>Ground Cover: Common barnyard grass (<i>Echinochloa crusgalli</i>), eastern cottonwood, hairy aster (<i>Aster pilosus</i> var. <i>pilosus</i>), Indian hemp, ironweed, Philadelphia fleabane, riverbank grape, small-spiked barnyard grass (<i>Echinochloa microstachya</i>), straw-colored umbrella sedge (<i>Cyperus strigosus</i>), tall goldenrod, Torrey's rush (<i>Juncus torreyi</i>), tree-of-heaven and white heath aster.</p>	<ul style="list-style-type: none"> - Seasonally flooded and is dominated by emergent hydrophytic macrophytes (MAM). - Represents the wetland – terrestrial interface. - Tree and shrub cover <= 25%. - Mineral soil (2), dominated by common reed. - Community age pioneer. 	BBA10, HCL4, MAL2, MAL7, NAR6D, NAR18, RED14, YWK7

APPENDIX C
SUMMARY OF ECOLOGICAL LAND CLASSIFICATION¹ VEGETATION COMMUNITIES
LOCATED IN THE AREA OF INVESTIGATION

ELC Code	Vegetation Type	Species Association	Comments	LGL Polygon Reference
MAM2-10	Forb Mineral Meadow Marsh	Canopy: European beggar-ticks (<i>Bidens tripartita</i>) is dominant with abundant devil's beggar-ticks (<i>Bidens frondosa</i>), spotted touch-me-not (<i>Impatiens capensis</i>) and tumor-curing cocklebur (<i>Xanthium strumarium</i>) as associates.	<ul style="list-style-type: none"> - Seasonally flooded and is dominated by emergent hydrophytic macrophytes (MAM). - Represents the wetland – terrestrial interface. - Tree and shrub cover <= 25%. - Mineral soil (2), dominated by forbs (-10). <p>Community age pioneer.</p>	BBA15
MAS	SHALLOW MARSH			
MAS2-1	Cattail Mineral Shallow Marsh	Canopy: Narrow-leaved cattail is dominant with calico aster, Canada thistle, field sow-thistle (<i>Sonchus arvensis</i> ssp. <i>arvensis</i>), fowl meadow grass (<i>Poa palustris</i>), orchard grass and tumor-curing cocklebur as associates.	<ul style="list-style-type: none"> - Standing or flowing water for much of the growing season and hydrophytic emergent macrophyte cover >25% (MAS). - Tree and shrub cover <= 25%. - Mineral soil (2). - Narrow-leaved Cattail is dominant (-1). - Community age pioneer. 	HCL8, YWK9
OAO	OPEN AQUATIC			
OAO	Open Aquatic	Ground Cover: Not applicable	<ul style="list-style-type: none"> - No Macrophyte vegetation, trees, or shrub cover. - Water Depth > 2m 	HWY3

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APPENDIX D

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
ABO1	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	38,60
ANS1	TPW2-1	Fresh-Moist Black Oak-White Oak Tallgrass Woodland	G2	S1	12	8,22,30,32,35,37,39,48,52,55,60,62
ANS1A	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	4	8,9,16,35
ANS2	TPW2-2	Fresh-Moist Pin Oak Tallgrass Woodland	G1	S1	13	13,22,26,30,32,37,39,42,44,45,48,55,60
ANS2C	TPW2-1	Fresh-Moist Black Oak-White Oak Tallgrass Woodland	G2	S1	17	13,22,27,30,32,35,37,39,42,44,45,47,48,55,58,60,62
BBA1	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	5	3,14,38,39,60
BBA1A	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	0	
BBA1B	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	0	
BBA2	FOD7-4	Fresh-Moist Black Walnut Lowland Deciduous Forest	G4?	S2S3	1	48
BBA3	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	0	
BBA3A	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
BBA4A	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	60
BBA4B	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	3	3,7,60
BBA4C	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	2	3,60
BBA4D	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	3	3,25,60
BBA4E	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	60
BBA4EB	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	60
BBA4EC	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	5	3,7,30,38,60
BBA4F	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	8	20,25,37-39,52,57,60
BBA4G	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked		
BBA4H	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked		

¹ Lee, H.T., W.D. Bakowsky, J. Riley, J. Bowles, M. Puddister, P. Uhlig and S. McMurray. 1998. Ecological Land Classification for Southern Ontario: First Approximation and Its Application. Ontario Ministry of Natural Resources, Southcentral Sciences Section, Science Development and Transfer Branch. SCSS Field Guide FG-02. North Bay, Ontario.

² Numbers correspond with the species number listed in Table 2 of the main report.

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
BBA4I	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked		
BBA4J	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked		
BBA4JB	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked		
BBA4K	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked		
BBA4L	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked		
BBA4N	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked		
BBA4P	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked		
BBA4R	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked		
BBA4S	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	25
BBA4M	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	2	52,60
BBA4MB	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	5	30,37,38,52,60
BBA5	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
BBA5B	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
BBA6	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
BBA7	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	1	48
BBA7B	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
BBA8	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	0	
BBA8B	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
BBA9	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
BBA10	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	1	3
BBA12	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	1	48
BBA13	FOD7-4	Fresh-Moist Black Walnut Lowland Deciduous Forest	G4?	S2S3	1	48
BBA14	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	2	25,48
BBA15	MAM2-10	Forb Mineral Meadow Marsh	G5?	S5	0	
BBA16	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not	1	3

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
				ranked		
BBA16B	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	3
BBA17	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	2	35,55
ESA1	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	4	37,38,57,60
ESA2	FOD2-2	Dry-Fresh Oak-Hickory Deciduous Forest	G4?	S3S4	5	16,25,37,39,55
ESA3	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	9	8,11,17,30,39,52,55,57,60
ESA4	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	7	8,11,30,39,55,57,60
ESA5	TPS2-1	Fresh-Moist Pin Oak-Bur Oak Tallgrass Savannah	G1	S1	10	2,11,17,22,30,37,39,55,57,60
HCL1	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	39
HCL1A	FOD8-2	Fresh-Moist Sassafras Deciduous Forest	not ranked	not ranked	1	55
HCL2	FOD8-1	Fresh-Moist Poplar Deciduous Forest	not ranked	not ranked	1	48
HCL3	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	10	8,17,30,37,39,43,52,55,57,60
HCL4	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	3	22,52,60
HCL5	SWD1-3	Pin Oak Mineral Deciduous Swamp	G2	S2S3	3	39,55,57
HCL6	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	8	11,17,22,38,39,55,57,60
HCL7	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
HCL8	MAS2-1	Cattail Mineral Shallow Marsh	G5	S5	1	18
HCL9	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	22
HCL10	FOD8-2	Fresh-Moist Sassafras Deciduous Forest	not ranked	not ranked	1	55
HWY1	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	4	22,39,52,60
HWY2	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
HWY3	OAO	Open Aquatic	NA	S5	0	
HWY4	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	0	
HWY5	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
LAM1	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	18	3,8,11,18,22,28,30,32,35,37-39,46,49,54,58-60
LAM2	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	11	8,11,18,22,30,37,39,50,55,57,60

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
LAM3	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	6	18,39,42,55,58,60
LAM4A	FOD7-3	Fresh-Moist Willow Lowland Deciduous Forest	not ranked	not ranked	0	
LAM4B	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	18,22
LAM4D	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	6	13,18,22,39,48,55
LAM4E	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
LAM4F	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
LAM4G	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
LAM5	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	39,55
LAM6	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
LAM7	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	39,55
MAL1	FOD1-4	Dry-Fresh Mixed Oak Deciduous Forest	G?	S3S4	6	22,37,44,49,53,55
MAL1A	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
MAL1B	FOD8	Fresh-Moist Poplar-Sassafras Deciduous Forest Ecosite	not ranked	not ranked	5	21,22,30,37,55
MAL1C	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
MAL1D	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	7	24,38,39,52, 57,59,60
MAL1E	FOD1-4	Dry-Fresh Mixed Oak Deciduous Forest	G?	S3S4	2	21,55
MAL2	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	0	
MAL3	CUS1-1	Hawthorn Cultural Savannah	not ranked	not ranked	7	22,30,37,39, 49,52,60
MAL3B	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	10	3,14,18,22,30, 37,39,49,52,60
MAL3C	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	39
MAL5	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	1	48
MAL6	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	0	
MAL7	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	0	
MAL8	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
MAL9	FOD1-3	Dry-Fresh Black Oak Deciduous Forest	G4?	S3	5	22,35,37,39,55
MAL10	SWD3-3	Freeman's Maple Mineral Deciduous	not ranked	not	5	22,35,37,39,55

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
		Swamp		ranked		
MAL11	FOD1-3	Dry-Fresh Black Oak Deciduous Forest	G4?	S3	5	22,35,37,39,55
MAL12	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	38,60
NAR1	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	10	4,14,22,30,38,49,51,55,59,60
NAR2	CUP3-3	Scotch Pine Coniferous Plantation	not ranked	not ranked	0	
NAR3A	FOD8	Fresh-Moist Poplar-Sassafras Deciduous Forest Ecosite	not ranked	not ranked	2	39,55
NAR3B	CUP1-8	Red Oak Deciduous Plantation	not ranked	not ranked	0	
NAR3C	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	0	
NAR3D	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	55
NAR4A	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	10	4,14,22,30,37-39,49,52,60
NAR4B	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	7	4,14,22,30,37,52,60
NAR4C	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	10	4,6,9,14,22,30,32,37,52,60
NAR5	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	2	1,55
NAR6A	FOD8	Fresh-Moist Poplar-Sassafras Deciduous Forest Ecosite	not ranked	not ranked	1	55
NAR6B	FOD8	Fresh-Moist Poplar-Sassafras Deciduous Forest Ecosite	not ranked	not ranked	1	55
NAR6C	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	1	55
NAR6D	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	2	34,52
NAR7	FOD9	Fresh-Moist Oak-Maple-Hickory Deciduous Forest Ecosite	not ranked	not ranked	0	
NAR8	FOD8-1	Fresh-Moist Poplar Deciduous Forest	not ranked	not ranked	1	36
NAR9	FOD8-1	Fresh-Moist Poplar Deciduous Forest	not ranked	not ranked	0	
NAR10	FOD9	Fresh-Moist Oak-Maple-Hickory Deciduous Forest Ecosite	not ranked	not ranked	1	55
NAR11	FOD9	Fresh-Moist Oak-Maple-Hickory Deciduous Forest Ecosite	not ranked	not ranked	0	
NAR12	FOD7-1	Fresh-Moist White Elm Lowland Deciduous Forest	not ranked	not ranked	4	10,37,39,55
NAR13	FOD7-2	Fresh-Moist Ash Lowland Deciduous Forest	not ranked	not ranked	0	
NAR14	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	3	22,37,39

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
NAR15	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	13	4,5,9,10,14,22,30,37,38,49,55,59,60
NAR16	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	13	5,9,10,14,22,30,37-39,49,55,59,60
NAR17	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	1	55
NAR18	MAM2-2	Reed-canary Grass Mineral Meadow Marsh	not ranked	not ranked	0	
NAR19	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	4	9,39,55,60
NAR20	FOD9	Fresh-Moist Oak-Maple-Hickory Deciduous Forest Ecosite	not ranked	not ranked	1	55
NCH1	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	39
NCH1A	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	5	4,5,39,49,55
NCH1B	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	5	4,5,39,49,55
NCH1C	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	5	4,5,39,49,55
NCH1D	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	5	9,22,37,39,55
NCH1E	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	1	57
NCH1F	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	2	39,55
NCH1G	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	2	39,55
NCH2A	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	4	5,37,39,60
NCH2B	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	7	9,15,22,24,35,55,60
NCH2C	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	3	22,30,60
NCH2D	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	2	39,55
NCH2E	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	6	1,4,14,15,22,30
NCH3	SWD3-3	Freeman's Maple Mineral Deciduous Swamp	not ranked	not ranked	1	39
NCH3A	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
NCH3B	SWD3-3	Freeman's Maple Mineral Deciduous Swamp	not ranked	not ranked	0	
NCH4A	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	2	39,60
NCH4B	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	12	2,4,14,15,22,27,30,37-39,59,60
NCH4Y	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not	3	27,39,60

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
				ranked		
NCH4Z	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	10	4,14,15,22,30,37-39,59,60
NCH5	CUP3	Coniferous Plantations	not ranked	not ranked	0	
NCH7	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	2	39,59
NCH7B	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	55
NCH7C	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	55
NCH7D	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
NCH7E	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	18,22
NCH7F	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	4	9,22,39,59
NCH7G	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	0	
NCH7H	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	1	39
NCH7J	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	2	39,55
NCH8	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	39,48
NCH11	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	39,55
NCH12	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	13	1,5,6,14,15,19,22,29,30,37,49,52,60
NCH12B	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	7	15,18,22,30,32,37,52,
NGM1	FOD4	Dry-Fresh Deciduous Forest Ecosite	not ranked	not ranked	5	23,55,59-61
NGM2	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	5	23,55,59-61
NGM3	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	38,60
NSG1	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	2	39,55
NSG2	CUT1-4	Gray Dogwood Cultural Thicket	not ranked	not ranked	3	11,22,39
NSG3	FOD7-2	Fresh-Moist Ash Lowland Deciduous Forest	not ranked	not ranked	2	39,55
NSG4	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
NSG5	CUS1	Mineral Cultural Savannah Ecosite	not ranked	not ranked	9	22,30,37-39,49,53,55,60
NSG6	FOD8	Fresh-Moist Poplar-Sassafras Deciduous	not ranked	not	1	55

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
		Forest Ecosite		ranked		
NSG7	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	3	30,38,60
NSG7A	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	3	30,38,60
NSG7B	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	55
NSG7C	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	3	30,38,60
NSG8	SWD3-3	Freeman's Maple Mineral Deciduous Swamp	not ranked	not ranked	1	55
NSG10	FOD8	Fresh-Moist Poplar-Sassafras Deciduous Forest Ecosite	not ranked	not ranked	1	55
NSG11	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	3	22,39,55
NSG12	FOD9	Fresh-Moist Oak-Maple-Hickory Deciduous Forest Ecosite	not ranked	not ranked	1	55
NSG13	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	38,55
NSG14	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	38,60
NSG15	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
OAK1A	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	7	9,14,22,30,32,52,60
OAK1B	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	9	4,21,23,30,39,52,55,57,60
OAK2	FOD8	Fresh-Moist Poplar-Sassafras Deciduous Forest Ecosite	not ranked	not ranked	5	22,39,48,55,60
OAK2A	SWD3-3	Freeman's Maple Mineral Deciduous Swamp	not ranked	not ranked	1	23
OAK2B	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	1	60
OAK2C	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	2	22,39
OAK3	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	5	1,14,30,32,33
OAK4	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	0	1,14,30,32,33
RED2	SWD1-3	Pin Oak Mineral Deciduous Swamp	G2	S2S3	7	22,36,39,41,55-57
RED2A	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	3	1,39,56
RED2B	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	4	1,9,15,55
RED3	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	3	22,59,60
RED4	SWD1-3	Pin Oak Mineral Deciduous Swamp	G2	S2S3	5	22,39,45,55,56
RED5	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	4	22,30,39,60
RED6	SWD3-3	Freeman's Maple Mineral Deciduous Swamp	not ranked	not ranked	0	

APPENDIX D

PROVINCIAL RARE ELC VEGETATION COMMUNITIES¹ LOCATED IN THE AREA OF INVESTIGATION

LGL ID	ELC Code	ELC Description	Grank	Srank	# of S1-S3	S1-S3 Plant Species Identifier ²
RED7	SWD3-3	Freeman's Maple Mineral Deciduous Swamp	not ranked	not ranked	5	18,37,39,55,60
RED8	SWD1-3	Pin Oak Mineral Deciduous Swamp	G2	S2S3	7	18,22,37,39, 44,55,56
RED9	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	0	
RED10	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
RED11	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
RED12	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	9	8, 14, 15, 19, 22,30,39,52,60
RED13	CUT1	Mineral Cultural Thicket Ecosite	not ranked	not ranked	9	8, 14, 15, 19,22, 30,39,52,60
RED14	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	2	52,60
RED15	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
YWK1	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	11	4,22,30,32,37,39, 40,49,51,55,60
YWK1B	TPO2-1	Fresh-Moist Tallgrass Prairie	G2	S1	10	4,22,30,32,37,39, 40,49,51,60
YWK1C	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	11	4,22,30,32,37,39, 40,49,51,55,60
YWK2	FOD1-3	Dry-Fresh Black Oak Deciduous Forest	G4?	S3	4	22,48,55,60
YWK3	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	3	18,22,60
YWK3A	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	0	
YWK4	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	4	7,37,55,60
YWK5	CUW1	Mineral Cultural Woodland Ecosite	not ranked	not ranked	3	34,55,60
YWK6	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	1	34
YWK7	MAM2	Mineral Meadow Marsh Ecosite	not ranked	not ranked	2	55,60
YWK8	CUM1-1	Dry-Moist Old Field Meadow	not ranked	not ranked	3	7,37,60
YWK9	MAS2-1	Cattail Mineral Shallow Marsh	G5	S5	0	

Note: Shading indicates vegetation communities that are provincially rare.

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APPENDIX E

APPENDIX E
FISH HABITAT ASSESSMENT SUMMARY

Watercourse/ Waterbody Name	Reach Location	Agricultural Municipal Drain Classification (A, B, C, D, E, F)	Fish Community (warmwater, coolwater, coldwater, baitfish, sportfish, migratory)	Habitat Summary	Flow Conditions (ephemeral, intermittent, permanent)	Drainage Connectivity (obstructed, partially obstructed, unobstructed)	Habitat Class (marginal, important, critical)	Channel Structure (channelized, channelized lined, natural)	Comments
Basin Drain	Upstream of E.C. Row	F	none	<ul style="list-style-type: none"> • piped upstream and downstream of Continental Drive • open pooled water upstream of E.C. Row • buried culvert? 	permanent	obstructed	none	channelized	
Basin Drain	Downstream of E.C. Row	F	warmwater baitfish	<ul style="list-style-type: none"> • ditched watercourse • morphology – flats with small riffle and pools near Spring Garden Road • width 2 m, depth 30 cm • more shallow and diverse downstream • sparse instream cover upstream, more downstream • riparian vegetation – trees, shrubs and herbaceous vegetation • substrate – muck 	permanent	unobstructed	marginal	channelized	
Benson Drain	Upstream of South Talbot Road	F	warmwater baitfish	<ul style="list-style-type: none"> • narrow ditched watercourse • morphology – flats with dry areas • width 0.5 m, depth 10 cm • riparian vegetation – trees, shrubs, grasses and herbaceous vegetation • good shade • sparse instream cover • substrate – clay 	intermittent	unobstructed	marginal	channelized	
Broadway Drain	Upstream of Sandwich Street	F	none	<ul style="list-style-type: none"> • roadside ditch • dry • lack of channel definition • riparian vegetation – cattails and <i>Phragmites</i> 	intermittent	partially obstructed	marginal	channelized	
Broadway Drain	Downstream of Sandwich Street	F	warmwater	<ul style="list-style-type: none"> • seasonal ditched watercourse • mostly dry – rip rap-lined pool at culvert receives warm effluent • pool 2.5 m wide, 25 cm deep • some channel definition • riparian vegetation - cattails, <i>Phragmites</i> and trees • channel accessible from Detroit River during high flows 	intermittent	partially obstructed	marginal	channelized	
Burke Drain	South Talbot Road to Talbot Road	F	warmwater sportfish	<ul style="list-style-type: none"> • pooled water in roadside ditch • width 2 m, depth 15 cm • riparian vegetation – cattails • substrate – detritus and muck 	intermittent	partially obstructed	marginal	channelized	<ul style="list-style-type: none"> • Water does not appear to be flowing. • Water is pooled in a deep roadside ditch
Burke Drain	Downstream of South Talbot Road	F	none	<ul style="list-style-type: none"> • roadside ditch • dry • lack of channel definition 	ephemeral	partially obstructed	none	channelized	
Cahill Drain	Upstream of confluence with Wolfe Drain	F	warmwater baitfish	<ul style="list-style-type: none"> • narrow ditched watercourse • morphology – flats with some runs and riffles • width 1.5 m, depth 20 cm • sparse instream cover • riparian vegetation – herbaceous vegetation and grasses • substrate – clay 	permanent	unobstructed	marginal	channelized	

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Cahill Drain	Downstream of Talbot Road	E	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse with some naturalization morphology – flats with some runs and pools width 4 m, depth 40 cm riparian vegetation – trees, shrubs, herbaceous vegetation and grasses substrate – muck 	permanent	unobstructed	important	channelized	
Collins Drain	Upstream of Confluence with Wolfe Drain	F	warmwater baitfish	<ul style="list-style-type: none"> ditched watercourse morphology - flats width 1.5 m, depth 5 cm riparian vegetation – cattails and <i>Phragmites</i> substrate – clay/silt 	intermittent	unobstructed	marginal	channelized	
Dickson Drain	Upstream of Confluence with Benson Drain	F	none	<ul style="list-style-type: none"> roadside ditch dry lack of channel definition riparian vegetation – cattails 	ephemeral	partially obstructed	none	channelized	
Dickson Drain	Downstream of South Talbot Road	F	warmwater baitfish	<ul style="list-style-type: none"> narrow ditched watercourse morphology – flats with dry areas width 1 m, depth 10 cm riparian vegetation – trees, shrubs, grasses and herbaceous vegetation good shade sparse instream cover substrate – clay 	intermittent	unobstructed	marginal	channelized	
Grand Marais Drain (Turkey Creek)	Upstream of Huron Church Road	unclassified	warmwater sportfish	<ul style="list-style-type: none"> concrete lined channel morphology - runs width 2.2 m, depth 25 cm very sparse instream cover no riparian vegetation substrate – silt and sand over concrete 	permanent	unobstructed	marginal	channelized concrete lined	
Grand Marais Drain (Turkey Creek)	Downstream of Huron Church Road	E	warmwater sportfish	<ul style="list-style-type: none"> concrete lined channel morphology – runs with small riffles width 2.2 m, depth 25 cm sparse instream cover no riparian vegetation for 100 m, then old field vegetation substrate – silt and sand over concrete 	permanent	unobstructed	marginal	channelized concrete lined	
Healy Drain	Upstream of Sandwich Street	F	none	<ul style="list-style-type: none"> roadside ditch obstructed by buried culvert some standing water lack of channel definition riparian vegetation – cattails and <i>Phragmites</i> 	intermittent	obstructed	none	channelized	
Healy Drain	Downstream of Sandwich Street	F	warmwater	<ul style="list-style-type: none"> seasonal ditched watercourse dry riparian vegetation – cattails and <i>Phragmites</i> channel accessible from Detroit River during high flows 	intermittent	partially obstructed	marginal	channelized	
Howard Avenue Drain	Upstream of South Talbot Road	F	none	<ul style="list-style-type: none"> roadside ditch dry lack of channel definition riparian vegetation - cattails 	ephemeral	partially obstructed	none	channelized	

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FISH HABITAT ASSESSMENT SUMMARY

Watercourse/ Waterbody Name	Reach Location	Agricultural Municipal Drain Classification (A, B, C, D, E, F)	Fish Community (warmwater, coolwater, coldwater, baitfish, sportfish, migratory)	Habitat Summary	Flow Conditions (ephemeral, intermittent, permanent)	Drainage Connectivity (obstructed, partially obstructed, unobstructed)	Habitat Class (marginal, important, critical)	Channel Structure (channelized, channelized lined, natural)	Comments
Lennon Drain	Upstream of Talbot Road	F	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse morphology – flats width 2 m, depth 25 cm sparse instream cover riparian vegetation – manicured grass with some trees substrate – geotextile and clay 	permanent	unobstructed	important	channelized	
Lennon Drain	Talbot Road to Huron Church Line	E	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse morphology – runs with few riffles width 1.5 m, depth 20 cm riparian vegetation – herbaceous vegetation, grasses, and few shrubs substrate – rip rap good instream cover 	permanent	unobstructed	important	channelized rip rap lined	
Lennon Drain	Downstream of Huron Church Line	E	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse morphology – runs with few riffles width 1.5 m, depth 20 cm sparse instream cover riparian vegetation – manicured grass with some trees substrate - clay 	permanent	unobstructed	important	channelized	
Marentette Drain	Upstream of Huron Church Road	F	none	<ul style="list-style-type: none"> Piped 	intermittent	obstructed	none	channelized	
Marentette Drain	Downstream of Huron Church Road	F	none	<ul style="list-style-type: none"> piped for ~60 m then open dry channel riparian vegetation – trees substrate – silt and detritus 	intermittent	obstructed	none	channelized	
McKee Drain	Upstream of Matchette Road	F	none	<ul style="list-style-type: none"> piped upstream of Matchette Road across residential property open channel inaccessible to fish riparian vegetation – manicured grass 	intermittent	obstructed	none	channelized	
McKee Drain	Matchette Road to E.C. Row	F	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse partially rip rap lined near E.C. Row morphology – flat width 1.5 m, depth 20 less water near Matchette Road riparian vegetation – <i>Phragmites</i> substrate – muck and detritus 	intermittent	unobstructed	important	channelized	
McKee Drain	Downstream of E.C. Row	F	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse rip rap lined morphology - flat width 2 m, depth 20 cm riparian vegetation – <i>Phragmites</i> substrate – muck and detritus 	intermittent	unobstructed	important	channelized	
McKee Creek	Upstream of Sandwich Street	F	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse lined with sheet piling morphology – flat width 3 m, depth 15 cm riparian vegetation – old field with vines substrate – muck 	permanent	unobstructed	important	channelized	

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FISH HABITAT ASSESSMENT SUMMARY

Watercourse/ Waterbody Name	Reach Location	Agricultural Municipal Drain Classification (A, B, C, D, E, F)	Fish Community (warmwater, coolwater, coldwater, baitfish, sportfish, migratory)	Habitat Summary	Flow Conditions (ephemeral, intermittent, permanent)	Drainage Connectivity (obstructed, partially obstructed, unobstructed)	Habitat Class (marginal, important, critical)	Channel Structure (channelized, channelized lined, natural)	Comments
McKee Creek	Downstream of Sandwich Street	E	warmwater sportfish	<ul style="list-style-type: none"> ditched watercourse flows downstream of sandwich street into a canal on Van De Hogen property morphology – flat width 4 m, depth 25 cm riparian vegetation – <i>Phragmites</i> substrate – muck and silt 	permanent	partially obstructed	important	channelized	
NoName Tributary of Dickson Drain along South Talbot Road	Upstream of Confluence with Dickson Drain	F	none	<ul style="list-style-type: none"> roadside ditch dry lack of channel definition riparian vegetation - cattails 	ephemeral	partially obstructed	none	channelized	
NoName Tributary of Susan Drain along Broadway Street	Upstream of Confluence with Susan Drain	F	none	<ul style="list-style-type: none"> roadside ditch dry lack of channel definition riparian vegetation – cattails and <i>Phragmites</i> 	none	partially obstructed	none	channelized	
No Name Tributary of Wolfe Drain along HWY 401	Upstream of confluence with Wolfe Drain	F	none	<ul style="list-style-type: none"> roadside ditch dry lack of channel definition riparian vegetation – cattails and <i>Phragmites</i> 	ephemeral	partially obstructed	none	channelized	
No Name Tributary of Wolfe Drain along Howard Avenue	Upstream of confluence with Wolfe Drain	F	none	<ul style="list-style-type: none"> roadside ditch dry lack of channel definition riparian vegetation – cattails and <i>Phragmites</i> 	ephemeral	partially obstructed	none	channelized	
Susan Drain	Downstream of Broadway Street to Confluence with NoName Tributary	F	none	<ul style="list-style-type: none"> ditched watercourse dry riparian vegetation – Oak forest substrate - detritus 	intermittent	unobstructed	none	channelized	
Talbot Drain	Upstream of confluence with Cahill Drain	F	none	<ul style="list-style-type: none"> narrow ditched watercourse riparian vegetation – trees, shrubs, herbaceous vegetation and grasses substrate – clay perched above Cahill Drain at confluence 	intermittent	obstructed	none	channelized	
Titcombe Drain	Downstream of E.C. Row	F	warmwater sportfish	<ul style="list-style-type: none"> seasonal ditched watercourse no flow in September 2006 pockets of standing water near Chappus Road approximate width of channel 1,5 m riparian vegetation – trees, shrubs, herbaceous vegetation and manicured grass substrate – silt and detritus 	intermittent	unobstructed	important	channelized	
Unnamed pond	West of Outer Drive, east of Howard Ave, South of Talbot Road	unclassified	warmwater sportfish	<ul style="list-style-type: none"> pond habitat dimensions approximately 55x55 m riparian vegetation – cattails, trees and shrubs substrate – clay and muck 	permanent	Not connected	marginal	Man made	<ul style="list-style-type: none"> Man made pond Not connected to watercourses
Wolfe Drain	Upstream of Confluence with Collins Drain	F	warmwater baitfish	<ul style="list-style-type: none"> ditched watercourse morphology – flats and runs width 1.5 m, depth 25 cm sparse instream cover riparian vegetation – herbaceous vegetation and grasses substrate - clay 	permanent	unobstructed	marginal	channelized	

APPENDIX E
FISH HABITAT ASSESSMENT SUMMARY

Watercourse/ Waterbody Name	Reach Location	Agricultural Municipal Drain Classification (A, B, C, D, E, F)	Fish Community (warmwater, coolwater, coldwater, baitfish, sportfish, migratory)	Habitat Summary	Flow Conditions (ephemeral, intermittent, permanent)	Drainage Connectivity (obstructed, partially obstructed, unobstructed)	Habitat Class (marginal, important, critical)	Channel Structure (channelized, channelized lined, natural)	Comments
Wolfe Drain	Confluence with Collins Drain to Confluence with Cahill Drain	F	warmwater baitfish	<ul style="list-style-type: none"> • ditched watercourse • morphology – flats with some runs, pools and riffles • width 2 m, depth 25 cm • sparse instream cover • riparian vegetation – trees, shrubs, herbaceous vegetation and grasses • well shaded for most of reach • substrate - clay 	permanent	unobstructed	marginal	channelized	
Wolfe Drain	Confluence with Cahill Drain to Talbot Road Crossing	E	warmwater sportfish	<ul style="list-style-type: none"> • ditched watercourse • morphology – flats with some runs, riffles and pools • width 2 m, depth 15 cm • sparse instream cover • riparian vegetation – shrubs, herbaceous vegetation and grasses • good shade for most of reach • substrate - clay 	permanent	unobstructed	marginal	channelized	
Youngstown Drain	Upstream of Confluence with Basin Drain	F	warmwater baitfish	<ul style="list-style-type: none"> • narrow ditched watercourse • morphology - flats • width 0.3 m, depth 10 cm • very little flow • riparian vegetation – herbaceous vegetation and grasses • substrate – clay 	intermittent	unobstructed	marginal	channelized	

DRAFT

APPENDIX F

APPENDIX F
LIST OF WILDLIFE SPECIES RECORDED IN THE AREA OF INVESTIGATION

Wildlife	Scientific Name	Common Name	COSEWIC	OMNR	Local	Legal Status	Others ¹	
Herpetofauna	<i>Bufo americanus</i>	American Toad						
	<i>Pseudacris triseriata</i>	Western Chorus Frog						
	<i>Rana pipiens</i>	Northern Leopard Frog						
	<i>Rana clamitans</i>	Green Frog						
	<i>Chelydra serpentina</i>	Snapping Turtle				FWCA(G)		
	<i>Chrysemys picta marginata</i>	Midland Painted Turtle				FWCA(P)		
	<i>Thamnophis sirtalis</i>	Eastern Gartersnake						
	<i>Thamnophis butleri</i>	Butler's Gartersnake	THR	THR		SARA(1)/ FWCA(P)		
	<i>Storeria dekayi</i>	Dekay's Brown Snake						
	<i>Storeria occipitomaculata</i>	Northern Red-bellied Snake						
	<i>Elaphe gloydi</i>	Eastern Fox Snake	THR	THR		SARA(1)/ FWCA(P)		
Birds	<i>Branta canadensis</i>	Canada Goose				MBCA		
	<i>Aix sponsa</i>	Wood Duck			BSC	MBCA		
	<i>Anas platyrhynchos</i>	Mallard				MBCA		
		<i>Phasianus colchicus</i>	Ring-necked Pheasant				MBCA / FWCA(G)	
		<i>Phalacrocorax auritus</i>	Double-crested Cormorant					
		<i>Ardea herodias</i>	Great Blue Heron				MBCA	
		<i>Ardea alba</i>	Great Egret				MBCA	
		<i>Nycticorax nycticorax</i>	Black-crowned Night Heron			BSC	MBCA	
		<i>Cathartes aura</i>	Turkey Vulture			BSC	FWCA(P)	
		<i>Pandion haliaetus</i>	Osprey			BSC	FWCA(P)	
		<i>Accipiter striatus</i>	Sharp-shinned Hawk				FWCA(P)	
		<i>Accipiter cooperii</i>	Cooper's Hawk				FWCA(P)	
		<i>Accipiter gentilis</i>	Northern Goshawk				FWCA(P)	
		<i>Buteo platypterus</i>	Broad-winged Hawk			BSC	FWCA(P)	
		<i>Buteo jamaicensis</i>	Red-tailed Hawk				FWCA(P)	
		<i>Falco sparverius</i>	American Kestrel			BSC	FWCA(P)	
		<i>Charadrius vociferus</i>	Killdeer				MBCA	
		<i>Actitis macularius</i>	Spotted Sandpiper			BSC	MBCA	
		<i>Gallinago delicata</i>	Wilson's Snipe			BSC	MBCA	
		<i>Scolopax minor</i>	American Woodcock			BSC	MBCA	
		<i>Larus delawarensis</i>	Ring-billed Gull				MBCA	
		<i>Columba livia</i>	Rock Pigeon					
		<i>Zenaida macroura</i>	Mourning Dove				MBCA	
		<i>Coccyzus americanus</i>	Yellow-billed Cuckoo			BSC	MBCA	*
		<i>Megascops asio</i>	Eastern Screech-Owl				FWCA(P)	
		<i>Archilochus colubris</i>	Ruby-throated Hummingbird			BSC	MBCA	
		<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	SC	SC	BSC	MBCA	
	<i>Melanerpes carolinus</i>	Red-bellied Woodpecker			BSC	MBCA		
	<i>Picoides pubescens</i>	Downy Woodpecker				MBCA		
	<i>Picoides villosus</i>	Hairy Woodpecker				MBCA	*	
	<i>Colaptes auratus</i>	Northern Flicker				MBCA		
	<i>Contopus virens</i>	Eastern Wood Pewee				MBCA		

¹ An asterisk indicates that the species has been identified by others and that suitable habitat exists in the area of investigation.

APPENDIX F
LIST OF WILDLIFE SPECIES RECORDED IN THE AREA OF INVESTIGATION

Wildlife	Scientific Name	Common Name	COSEWIC	OMNR	Local	Legal Status	Others ¹
	<i>Empidonax traillii</i>	Willow Flycatcher				MBCA	
	<i>Empidonax minimus</i>	Least Flycatcher				MBCA	
	<i>Sayornis phoebe</i>	Eastern Phoebe			BSC	MBCA	
	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				MBCA	*
	<i>Tyrannus tyrannus</i>	Eastern Kingbird			BSC	MBCA	
	<i>Vireo flavifrons</i>	Yellow-throated Vireo				MBCA	
	<i>Vireo solitarius</i>	Blue-headed Vireo				MBCA	
	<i>Vireo gilvus</i>	Warbling Vireo				MBCA	
	<i>Vireo olivaceus</i>	Red-eyed Vireo				MBCA	
	<i>Cyanocitta cristata</i>	Blue Jay				FWCA(P)	
	<i>Corvus brachyrhynchos</i>	American Crow					
	<i>Eremophila alpestris</i>	Horned Lark			BSC	MBCA	
	<i>Tachycineta bicolor</i>	Tree Swallow				MBCA	
	<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow			BSC	MBCA	
	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow			BSC	MBCA	
	<i>Hirundo rustica</i>	Barn Swallow			BSC	MBCA	
	<i>Poecile atricapillus</i>	Black-capped Chickadee				MBCA	
	<i>Sitta carolinensis</i>	White-breasted Nuthatch				MBCA	
	<i>Certhia americana</i>	Brown Creeper			BSC	MBCA	
	<i>Thryothorus ludovicianus</i>	Carolina Wren			BSC	MBCA	
	<i>Troglodytes aedon</i>	House Wren				MBCA	
	<i>Regulus satrapa</i>	Golden-crowned Kinglet				MBCA	
	<i>Regulus calendula</i>	Ruby-crowned Kinglet				MBCA	
	<i>Poliophtila caerulea</i>	Blue-gray Gnatcatcher			BSC	MBCA	
	<i>Sialia sialis</i>	Eastern Bluebird			BSC	MBCA	
	<i>Cathartes fuscescens</i>	Veery			BSC	MBCA	
	<i>Catharus guttatus</i>	Hermit Thrush				MBCA	
	<i>Hylocichla mustelina</i>	Wood Thrush				MBCA	
	<i>Turdus migratorius</i>	American Robin				MBCA	
	<i>Dumetella carolinensis</i>	Gray Catbird			BSC	MBCA	
	<i>Toxostoma rufum</i>	Brown Thrasher			BSC	MBCA	
	<i>Sturnus vulgaris</i>	European Starling					
	<i>Bombycilla cedrorum</i>	Cedar Waxwing				MBCA	
	<i>Vermivora chrysoptera</i>	Golden-winged Warbler				MBCA	
	<i>Vermivora peregrina</i>	Tennessee Warbler				MBCA	
	<i>Vermivora ruficapilla</i>	Nashville Warbler				MBCA	
	<i>Parula americana</i>	Northern Parula				MBCA	
	<i>Dendroica petechia</i>	Yellow Warbler				MBCA	
	<i>Dendroica pensylvanica</i>	Chestnut-sided Warbler			BSC	MBCA	
	<i>Dendroica magnolia</i>	Magnolia Warbler				MBCA	
	<i>Dendroica caerulescens</i>	Black-throated Blue Warbler				MBCA	
	<i>Dendroica coronata</i>	Yellow-rumped Warbler				MBCA	
	<i>Dendroica virens</i>	Black-throated Green Warbler				MBCA	
	<i>Dendroica fusca</i>	Blackburnian Warbler				MBCA	
	<i>Dendroica pinus</i>	Pine Warbler				MBCA	
	<i>Dendroica palmarum</i>	Palm Warbler				MBCA	
	<i>Dendroica castanea</i>	Bay-breasted Warbler				MBCA	
	<i>Mniotilta varia</i>	Black and White Warbler				MBCA	
	<i>Setophaga ruticilla</i>	American Redstart			BSC	MBCA	

APPENDIX F
LIST OF WILDLIFE SPECIES RECORDED IN THE AREA OF INVESTIGATION

Wildlife	Scientific Name	Common Name	COSEWIC	OMNR	Local	Legal Status	Others ¹
	<i>Seiurus aurocapilla</i>	Ovenbird			BSC	MBCA	*
	<i>Oporornis philadelphia</i>	Mourning Warbler			BSC	MBCA	
	<i>Geothlypis trichas</i>	Common Yellowthroat				MBCA	
	<i>Wilsonia pusilla</i>	Wilson's Warbler				MBCA	
	<i>Piranga olivacea</i>	Scarlet Tanager			BSC	MBCA	*
	<i>Pipilo erythrophthalmus</i>	Eastern Towhee			BSC	MBCA	
	<i>Spizella passerina</i>	Chipping Sparrow				MBCA	
	<i>Spizella pusilla</i>	Field Sparrow			BSC	MBCA	
	<i>Pooecetes gramineus</i>	Vesper Sparrow			BSC	MBCA	
	<i>Passerculus sandwichensis</i>	Savannah Sparrow			BSC	MBCA	
	<i>Melospiza georgiana</i>	Swamp Sparrow			BSC	MBCA	*
	<i>Melospiza melodia</i>	Song Sparrow				MBCA	
	<i>Melospiza lincolni</i>	Lincoln's Sparrow				MBCA	
	<i>Zonotrichia albicollis</i>	White-throated Sparrow				MBCA	
	<i>Zonotrichia leucophrys</i>	White-crowned Sparrow				MBCA	
	<i>Junco hyemalis</i>	Dark-eyed Junco				MBCA	
	<i>Cardinalis cardinalis</i>	Northern Cardinal				MBCA	
	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				MBCA	
	<i>Passerina cyanea</i>	Indigo Bunting				MBCA	
	<i>Agelaius phoeniceus</i>	Red-winged Blackbird					
	<i>Quiscalus quiscula</i>	Common Grackle					
	<i>Molothrus ater</i>	Brown-headed Cowbird					
	<i>Icterus spurius</i>	Orchard Oriole			BSC	MBCA	
	<i>Icterus galbula</i>	Baltimore Oriole				MBCA	
	<i>Carpodacus mexicanus</i>	House Finch				MBCA	
	<i>Carduelis tristis</i>	American Goldfinch			BSC	MBCA	
	<i>Passer domesticus</i>	House Sparrow					
Mammals	<i>Didelphis virginiana</i>	Virginia Opossum				FWCA(F)	
	<i>Blarina brevicauda</i>	N. Short-tailed Shrew				FWCA(P)	
	<i>Eptesicus fuscus</i>	Big Brown Bat				FWCA(P)	*
	<i>Lasiurus borealis</i>	Eastern Red Bat				FWCA(P)	*
	<i>Lasiurus cinereus</i>	Hoary Bat				FWCA(P)	*
	<i>Sylvilagus floridanus</i>	Eastern Cottontail				FWCA(G)	
	<i>Lepus europaeus</i>	European Hare				FWCA(G)	
	<i>Tamias striatus</i>	Eastern Chipmunk				FWCA(P)	
	<i>Marmota monax</i>	Groundhog					
	<i>Sciurus carolinensis</i>	Gray Squirrel				FWCA(G)	
	<i>Peromyscus leucopus</i>	White-footed Mouse					
	<i>Microtus pennsylvanicus</i>	Meadow Vole					
	<i>Ondatra zibethica</i>	Muskrat				FWCA(F)	
	<i>Rattus norvegicus</i>	Norway Rat					*
	<i>Mus musculus</i>	House Mouse					*
	<i>Canis latrans</i>	Coyote				FWCA(F)	
	<i>Vulpes vulpes</i>	Red Fox				FWCA(F)	
	<i>Procyon lotor</i>	Raccoon				FWCA(F)	
	<i>Mephitis mephitis</i>	Striped Skunk				FWCA(F)	
	<i>Odocoileus virginianus</i>	White-tailed Deer				FWCA(G)	

DRAFT

APPENDIX G

APPENDIX G
LIST OF BIRD SPECIES WITH BREEDING EVIDENCE

Scientific Name	Common Name	COSEWIC	OMNR	Local	Legal Status	Others ¹	BBE
<i>Branta canadensis</i>	Canada Goose				MBCA		NE, FY
<i>Aix sponsa</i>	Wood Duck			BSC	MBCA		
<i>Anas platyrhynchos</i>	Mallard				MBCA		FY
<i>Phasianus colchicus</i>	Ring-necked Pheasant				MBCA/ FWCA(G)		T
<i>Phalacrocorax auritus</i>	Double-crested Cormorant						
<i>Ardea herodias</i>	Great Blue Heron				MBCA		
<i>Ardea alba</i>	Great Egret				MBCA		
<i>Nycticorax nycticorax</i>	Black-crowned Night Heron			BSC	MBCA		
<i>Cathartes aura</i>	Turkey Vulture			BSC	FWCA(P)		
<i>Pandion haliaetus</i>	Osprey			BSC	FWCA(P)		
<i>Accipiter striatus</i>	Sharp-shinned Hawk				FWCA(P)		
<i>Accipiter cooperii</i>	Cooper's Hawk				FWCA(P)		H
<i>Accipiter gentilis</i>	Northern Goshawk				FWCA(P)		
<i>Buteo platypterus</i>	Broad-winged Hawk			BSC	FWCA(P)		
<i>Buteo jamaicensis</i>	Red-tailed Hawk				FWCA(P)		NE
<i>Falco sparverius</i>	American Kestrel			BSC	FWCA(P)		CF
<i>Charadrius vociferus</i>	Killdeer				MBCA		T, A, FY
<i>Actitis macularius</i>	Spotted Sandpiper			BSC	MBCA		T, A
<i>Gallinago delicata</i>	Wilson's Snipe			BSC	MBCA		
<i>Scolopax minor</i>	American Woodcock			BSC	MBCA		
<i>Larus delawarensis</i>	Ring-billed Gull				MBCA		
<i>Columba livia</i>	Rock Pigeon						
<i>Zenaida macroura</i>	Mourning Dove				MBCA		T, FY
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo			BSC	MBCA	*	
<i>Megascops asio</i>	Eastern Screech-Owl				FWCA(P)		
<i>Archilochus colubris</i>	Ruby-throated Hummingbird			BSC	MBCA		
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	SC	SC	BSC	MBCA		
<i>Melanerpes carolinus</i>	Red-bellied Woodpecker			BSC	MBCA		
<i>Picoides pubescens</i>	Downy Woodpecker				MBCA		N, CF, FY
<i>Picoides villosus</i>	Hairy Woodpecker				MBCA	*	
<i>Colaptes auratus</i>	Northern Flicker				MBCA		D, FY
<i>Contopus virens</i>	Eastern Wood Pewee				MBCA		T
<i>Empidonax traillii</i>	Willow Flycatcher				MBCA		NE, NY
<i>Empidonax minimus</i>	Least Flycatcher				MBCA		
<i>Sayornis phoebe</i>	Eastern Phoebe			BSC	MBCA		
<i>Myiarchus crinitus</i>	Great Crested Flycatcher				MBCA	*	
<i>Tyrannus tyrannus</i>	Eastern Kingbird			BSC	MBCA		T, A
<i>Vireo flavifrons</i>	Yellow-throated Vireo				MBCA		S
<i>Vireo solitarius</i>	Blue-headed Vireo				MBCA		
<i>Vireo gilvus</i>	Warbling Vireo				MBCA		S, A
<i>Vireo olivaceus</i>	Red-eyed Vireo				MBCA		S, T
<i>Cyanocitta cristata</i>	Blue Jay				FWCA(P)		T
<i>Corvus brachyrhynchos</i>	American Crow						

¹ An asterisk indicates that the species has been identified by others and that suitable habitat exists in the area of investigation.

APPENDIX G
LIST OF BIRD SPECIES WITH BREEDING EVIDENCE

Scientific Name	Common Name	COSEWIC	OMNR	Local	Legal Status	Others ¹	BBE
<i>Eremophila alpestris</i>	Horned Lark			BSC	MBCA		FY
<i>Tachycineta bicolor</i>	Tree Swallow				MBCA		AE
<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow			BSC	MBCA		
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow			BSC	MBCA		AE
<i>Hirundo rustica</i>	Barn Swallow			BSC	MBCA		N, AE
<i>Poecile atricapillus</i>	Black-capped Chickadee				MBCA		FY
<i>Sitta carolinensis</i>	White-breasted Nuthatch				MBCA		
<i>Certhia Americana</i>	Brown Creeper			BSC	MBCA		
<i>Thryothorus ludovicianus</i>	Carolina Wren			BSC	MBCA		S
<i>Troglodytes aedon</i>	House Wren				MBCA		S
<i>Regulus satrapa</i>	Golden-crowned Kinglet				MBCA		
<i>Regulus calendula</i>	Ruby-crowned Kinglet				MBCA		
<i>Polioptila caerulea</i>	Blue-gray Gnatcatcher			BSC	MBCA		
<i>Sialia sialis</i>	Eastern Bluebird			BSC	MBCA		
<i>Cathartes fuscescens</i>	Veery			BSC	MBCA		
<i>Catharus guttatus</i>	Hermit Thrush				MBCA		
<i>Hylocichla mustelina</i>	Wood Thrush				MBCA		S, T, NE
<i>Turdus migratorius</i>	American Robin				MBCA		NE, NY, FY
<i>Dumetella carolinensis</i>	Gray Catbird			BSC	MBCA		N, NE, NY, CF
<i>Toxostoma rufum</i>	Brown Thrasher			BSC	MBCA		FY
<i>Sturnus vulgaris</i>	European Starling						AE, FY
<i>Bombycilla cedrorum</i>	Cedar Waxwing				MBCA		A, N, CF
<i>Vermivora chrysoptera</i>	Golden-winged Warbler				MBCA		
<i>Vermivora peregrine</i>	Tennessee Warbler				MBCA		
<i>Vermivora ruficapilla</i>	Nashville Warbler				MBCA		
<i>Parula Americana</i>	Northern Parula				MBCA		
<i>Dendroica petechia</i>	Yellow Warbler				MBCA		NE, CF
<i>Dendroica pensylvanica</i>	Chestnut-sided Warbler			BSC	MBCA		
<i>Dendroica magnolia</i>	Magnolia Warbler				MBCA		
<i>Dendroica caerulescens</i>	Black-throated Blue Warbler				MBCA		
<i>Dendroica coronata</i>	Yellow-rumped Warbler				MBCA		
<i>Dendroica virens</i>	Black-throated Green Warbler				MBCA		
<i>Dendroica fusca</i>	Blackburnian Warbler				MBCA		
<i>Dendroica pinus</i>	Pine Warbler				MBCA		
<i>Dendroica palmarum</i>	Palm Warbler				MBCA		
<i>Dendroica castanea</i>	Bay-breasted Warbler				MBCA		
<i>Mniotilta varia</i>	Black and White Warbler				MBCA		
<i>Setophaga ruticilla</i>	American Redstart			BSC	MBCA		
<i>Seiurus aurocapilla</i>	Ovenbird			BSC	MBCA	*	
<i>Oporornis Philadelphia</i>	Mourning Warbler			BSC	MBCA		
<i>Geothlypis trichas</i>	Common Yellowthroat				MBCA		A, T
<i>Wilsonia pusilla</i>	Wilson's Warbler				MBCA		
<i>Piranga olivacea</i>	Scarlet Tanager			BSC	MBCA	*	
<i>Pipilo erythrophthalmus</i>	Eastern Towhee			BSC	MBCA		S, T

APPENDIX G
LIST OF BIRD SPECIES WITH BREEDING EVIDENCE

Scientific Name	Common Name	COSEWIC	OMNR	Local	Legal Status	Others ¹	BBE
<i>Spizella passerine</i>	Chipping Sparrow				MBCA		T
<i>Spizella pusilla</i>	Field Sparrow			BSC	MBCA		S, T
<i>Poocetes gramineus</i>	Vesper Sparrow			BSC	MBCA		CF
<i>Passerculus sandwichensis</i>	Savannah Sparrow			BSC	MBCA		S, T
<i>Melospiza melodia</i>	Song Sparrow				MBCA		CF, FY
<i>Melospiza lincolni</i>	Lincoln's Sparrow				MBCA		
<i>Melospiza Georgiana</i>	Swamp Sparrow			BSC	MBCA	*	
<i>Zonotrichia albicollis</i>	White-throated Sparrow				MBCA		
<i>Zonotrichia leucophrys</i>	White-crowned Sparrow				MBCA		
<i>Junco hyemalis</i>	Dark-eyed Junco				MBCA		
<i>Cardinalis cardinalis</i>	Northern Cardinal				MBCA		CF
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				MBCA		S, A, CF
<i>Passerina cyanea</i>	Indigo Bunting				MBCA		S, T, D, CF
<i>Agelaius phoeniceus</i>	Red-winged Blackbird						N, CF, FY
<i>Quiscalus quiscula</i>	Common Grackle						CF, FY
<i>Molothrus ater</i>	Brown-headed Cowbird						NY
<i>Icterus spurius</i>	Orchard Oriole			BSC	MBCA		D, CF
<i>Icterus galbula</i>	Baltimore Oriole				MBCA		NE, CF
<i>Carpodacus mexicanus</i>	House Finch				MBCA		T, FY
<i>Carduelis tristis</i>	American Goldfinch			BSC	MBCA		D
<i>Passer domesticus</i>	House Sparrow						AE, CF, FY

BBE - Breeding Bird Evidence (according to Bird Studies Canada):

Possible Breeding:

- H - Species observed in its breeding season in suitable nesting habitat.
- S - Singing male present in its breeding season in suitable nesting habitat.

Probable Breeding:

- T - Permanent territory presumed through registration of territorial song on at least two days, a week or so apart, at the same place.
- D - Courtship or display between male and female, including courtship feeding or copulation.
- A - Agitated behavior or anxiety calls of an adult.
- N - Nest-building or excavation of nest hole.

Confirmed Breeding:

- AE - Adults leaving or entering nest site in circumstances indication occupied nest.
- NU - Used nest or egg shell found (occupied or laid within the period of study).
- FY - Recently fledged young or downy young, including young incapable of sustained flight.
- CF - Adult carrying food for young.
- NE - Nest containing eggs.
- NY - Nest with young seen or heard.

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APPENDIX H

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
1	0328060E 4681980N	Brighton Beach Broadway Street	Jun 5	<i>Phasianus colchicus</i> <i>Zenaida macroura</i> <i>Colaptes auratus</i> <i>Vireo gilvus</i> <i>Poecile atricapillus</i> <i>Sialia sialis</i> <i>Hylocichla mustelina</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Pipilo erythrophthalmus</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Icterus galbula</i>	Ring necked Pheasant Mourning Dove Northern Flicker Warbling Vireo Black capped Chickadee Eastern Bluebird Wood Thrush American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Eastern Towhee Song Sparrow Northern Cardinal Common Grackle Baltimore Oriole	Jun 15	<i>Phasianus colchicus</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Icterus galbula</i>	Ring necked Pheasant Warbling Vireo Blue Jay Carolina Wren House Wren American Robin Gray Catbird Song Sparrow Northern Cardinal Baltimore Oriole
2	0328248E 4682110N	Brighton Beach Scotten Road	Jun 5	<i>Zenaida macroura</i> <i>Colaptes auratus</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Mourning Dove Northern Flicker Warbling Vireo House Wren American Robin Cedar Waxwing Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird House Sparrow	Jun 15	<i>Zenaida macroura</i> <i>Colaptes auratus</i> <i>Vireo gilvus</i> <i>Corvus brachyrhynchos</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Passer domesticus</i>	Mourning Dove Northern Flicker Warbling Vireo American Crow House Wren American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird Common Grackle Brown headed Cowbird House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
3	0327940E 4682265N	Brighton Beach Road	Jun 5	<i>Phasianus colchicus</i> <i>Zenaida macroura</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i>	Ring necked Pheasant Mourning Dove Warbling Vireo Blue Jay House Wren American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Song Sparrow Red winged Blackbird	Jun 15	<i>Charadrius vociferus</i> <i>Colaptes auratus</i> <i>Vireo gilvus</i> <i>Stelgidopteryx serripennis</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Killdeer Northern Flicker Warbling Vireo Northern Rough winged Swallow House Wren American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Red winged Blackbird Common Grackle Brown headed Cowbird American Goldfinch House Sparrow
4	0327720E 4682194N	Brighton Beach Broadway Street	Jun 5	<i>Phasianus colchicus</i> <i>Colaptes auratus</i> <i>Vireo olivaceus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Ring necked Pheasant Northern Flicker Red eyed Vireo House Wren American Robin Gray Catbird Cedar Waxwing Yellow Warbler Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch House Sparrow	Jun 15	<i>Phasianus colchicus</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Contopus virens</i> <i>Vireo flavifrons</i> <i>Vireo gilvus</i> <i>Vireo olivaceus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Passerina cyanea</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Ring necked Pheasant Downy Woodpecker Northern Flicker Eastern Wood Pewee Yellow throated Vireo Warbling Vireo Red eyed Vireo House Wren American Robin Gray Catbird Cedar Waxwing Yellow Warbler Song Sparrow Northern Cardinal Rose breasted Grosbeak Indigo Bunting Brown headed Cowbird Baltimore Oriole American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
5	0327408E	Brighton Beach Broadway & Sandwich	Jun 5	<i>Zenaida macroura</i>	Mourning Dove	Jun 15	<i>Phasianus colchicus</i>	Ring necked Pheasant
	<i>Colaptes auratus</i>			Northern Flicker	<i>Zenaida macroura</i>		Mourning Dove	
	4682286N			<i>Vireo gilvus</i>	Warbling Vireo		<i>Picoides pubescens</i>	Downy Woodpecker
				<i>Troglodytes aedon</i>	House Wren		<i>Colaptes auratus</i>	Northern Flicker
				<i>Turdus migratorius</i>	American Robin		<i>Contopus virens</i>	Eastern Wood Pewee
				<i>Dumetella carolinensis</i>	Gray Catbird		<i>Tachycineta bicolor</i>	Tree Swallow
				<i>Sturnus vulgaris</i>	European Starling		<i>Thryothorus ludovicianus</i>	Carolina Wren
				<i>Bombycilla cedrorum</i>	Cedar Waxwing		<i>Turdus migratorius</i>	American Robin
				<i>Dendroica petechia</i>	Yellow Warbler		<i>Dumetella carolinensis</i>	Gray Catbird
				<i>Melospiza melodia</i>	Song Sparrow		<i>Bombycilla cedrorum</i>	Cedar Waxwing
				<i>Cardinalis cardinalis</i>	Northern Cardinal		<i>Dendroica petechia</i>	Yellow Warbler
				<i>Pheucticus ludovicianus</i>	Rose breasted Grosbeak		<i>Melospiza melodia</i>	Song Sparrow
				<i>Passerina cyanea</i>	Indigo Bunting		<i>Cardinalis cardinalis</i>	Northern Cardinal
				<i>Agelaius phoeniceus</i>	Red winged Blackbird		<i>Agelaius phoeniceus</i>	Red winged Blackbird
				<i>Quiscalus quiscula</i>	Common Grackle		<i>Molothrus ater</i>	Brown headed Cowbird
				<i>Molothrus ater</i>	Brown headed Cowbird		<i>Icterus galbula</i>	Baltimore Oriole
				<i>Icterus galbula</i>	Baltimore Oriole		<i>Carduelis tristis</i>	American Goldfinch
				<i>Carduelis tristis</i>	American Goldfinch		<i>Passer domesticus</i>	House Sparrow
				<i>Passer domesticus</i>	House Sparrow			
6	0327278E 4682455N	Brighton Beach ? Road	Jun 5	<i>Megascops asio</i>	Eastern Screech Owl	Jun 15	<i>Phasianus colchicus</i>	Ring necked Pheasant
				<i>Picoides pubescens</i>	Downy Woodpecker		<i>Picoides pubescens</i>	Downy Woodpecker
				<i>Colaptes auratus</i>	Northern Flicker		<i>Colaptes auratus</i>	Northern Flicker
				<i>Empidonax traillii</i>	Willow Flycatcher		<i>Troglodytes aedon</i>	House Wren
				<i>Vireo olivaceus</i>	Red eyed Vireo		<i>Turdus migratorius</i>	American Robin
				<i>Cyanocitta cristata</i>	Blue Jay		<i>Dumetella carolinensis</i>	Gray Catbird
				<i>Poecile atricapillus</i>	Black capped Chickadee		<i>Toxostoma rufum</i>	Brown Thrasher
				<i>Thryothorus ludovicianus</i>	Carolina Wren		<i>Bombycilla cedrorum</i>	Cedar Waxwing
				<i>Troglodytes aedon</i>	House Wren		<i>Dendroica petechia</i>	Yellow Warbler
				<i>Turdus migratorius</i>	American Robin		<i>Spizella passerina</i>	Chipping Sparrow
				<i>Sturnus vulgaris</i>	European Starling		<i>Melospiza melodia</i>	Song Sparrow
				<i>Bombycilla cedrorum</i>	Cedar Waxwing		<i>Cardinalis cardinalis</i>	Northern Cardinal
				<i>Dendroica petechia</i>	Yellow Warbler		<i>Agelaius phoeniceus</i>	Red winged Blackbird
				<i>Melospiza melodia</i>	Song Sparrow		<i>Molothrus ater</i>	Brown headed Cowbird
				<i>Cardinalis cardinalis</i>	Northern Cardinal		<i>Carduelis tristis</i>	American Goldfinch
				<i>Agelaius phoeniceus</i>	Red winged Blackbird			
<i>Molothrus ater</i>	Brown headed Cowbird							
<i>Icterus galbula</i>	Baltimore Oriole							

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
7	0327080E 4682640N	Brighton Beach Detroit River	Jun 5	<i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Hirundo rustica</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Willow Flycatcher Warbling Vireo Barn Swallow Carolina Wren House Wren American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird Baltimore Oriole American Goldfinch	Jun 15	<i>Picoides pubescens</i> <i>Empidonax traillii</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Downy Woodpecker Willow Flycatcher Barn Swallow American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Song Sparrow Northern Cardinal Baltimore Oriole American Goldfinch
8	0327678E 4682590N	Brighton Beach Chappus & Sandwich	Jun 5	<i>Phasianus colchicus</i> <i>Zenaid macroura</i> <i>Empidonax traillii</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i>	Ring necked Pheasant Mourning Dove Willow Flycatcher Eastern Kingbird Warbling Vireo House Wren American Robin European Starling Yellow Warbler Song Sparrow Red winged Blackbird Common Grackle Brown headed Cowbird	Jun 14	<i>Zenaid macroura</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Hirundo rustica</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carpodacus mexicanus</i>	Mourning Dove Willow Flycatcher Warbling Vireo Barn Swallow House Wren American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird Baltimore Oriole House Finch

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name												
9	0328335E	Brighton Beach Chappus & Scotten	Jun 6	<i>Charadrius vociferus</i>	Killdeer	Jun 14	<i>Charadrius vociferus</i>	Killdeer												
	4682365N			<i>Zenaida macroura</i>	Mourning Dove		<i>Empidonax traillii</i>	Willow Flycatcher	<i>Thryothorus ludovicianus</i>	Carolina Wren	<i>Turdus migratorius</i>	American Robin	<i>Dumetella carolinensis</i>	Gray Catbird	<i>Sturnus vulgaris</i>	European Starling	<i>Dendroica petechia</i>	Yellow Warbler	<i>Melospiza melodia</i>	Song Sparrow
10	0328448E	Yawkey Ojibway & Broadway	Jun 6	<i>Poecile atricapillus</i>	Black capped Chickadee	Jun 15	<i>Cyanocitta cristata</i>	Blue Jay												
	4681895N			<i>Troglodytes aedon</i>	House Wren		<i>Thryothorus ludovicianus</i>	Carolina Wren	<i>Turdus migratorius</i>	House Wren	<i>Dumetella carolinensis</i>	American Robin	<i>Bombycilla cedrorum</i>	Gray Catbird	<i>Cardinalis cardinalis</i>	Cedar Waxwing	<i>Passerina cyanea</i>	Northern Cardinal	<i>Icterus galbula</i>	Indigo Bunting

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
11	0328785E 4682010N	Yawkey Beech Street	Jun 6	<i>Phasianus colchicus</i> <i>Picoides pubescens</i> <i>Vireo gilvus</i> <i>Vireo olivaceus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Spizella passerina</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carpodacus mexicanus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Ring necked Pheasant Downy Woodpecker Warbling Vireo Red eyed Vireo Blue Jay House Wren American Robin European Starling Yellow Warbler Common Yellowthroat Chipping Sparrow Indigo Bunting Red winged Blackbird Brown headed Cowbird Baltimore Oriole House Finch American Goldfinch House Sparrow	Jun 16	<i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Spizella passerina</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Warbling Vireo House Wren American Robin Gray Catbird European Starling Chipping Sparrow Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Brown headed Cowbird American Goldfinch
12	0328630E 4682270N	Yawkey Chappus Street	Jun 6	<i>Zenaida macroura</i> <i>Contopus virens</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Mourning Dove Eastern Wood Pewee Willow Flycatcher Warbling Vireo House Wren American Robin Gray Catbird European Starling Yellow Warbler Northern Cardinal Red winged Blackbird Brown headed Cowbird Baltimore Oriole House Sparrow	Jun 16	<i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Willow Flycatcher Warbling Vireo House Wren American Robin Gray Catbird European Starling Yellow Warbler Red winged Blackbird House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
13	0329038E 4681910N	Yawkey Matchette & Armanda	Jun 6	<i>Zenaida macroura</i> <i>Tyrannus tyrannus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Mourning Dove Eastern Kingbird Blue Jay House Wren American Robin European Starling Northern Cardinal Red winged Blackbird Common Grackle Baltimore Oriole House Sparrow	Jun 16	<i>Zenaida macroura</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Mourning Dove Blue Jay American Robin European Starling Northern Cardinal Red winged Blackbird Common Grackle Brown headed Cowbird Baltimore Oriole House Sparrow
14	0328982E 4682330N	Yawkey S.Matchette & EC Row	Jun 6	<i>Charadrius vociferus</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i>	Killdeer Barn Swallow American Robin Gray Catbird Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird	Jun 16	<i>Charadrius vociferus</i> <i>Vireo gilvus</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Spizella passerina</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carpodacus mexicanus</i> <i>Passer domesticus</i>	Killdeer Warbling Vireo American Robin European Starling Gray Catbird Cedar Waxwing Yellow Warbler Common Yellowthroat Chipping Sparrow Song Sparrow Northern Cardinal Red winged Blackbird Common Grackle Brown headed Cowbird Baltimore Oriole House Finch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
15	0329250E 4682566N	Malden Park N.Matchette & EC Row	Jun 6	<i>Charadrius vociferus</i>	Killdeer	Jun 16	<i>Charadrius vociferus</i>	Killdeer
				<i>Vireo gilvus</i>	Warbling Vireo		<i>Actitis macularius</i>	Spotted Sandpiper
				<i>Hirundo rustica</i>	Barn Swallow		<i>Zenaida macroura</i>	Mourning Dove
				<i>Turdus migratorius</i>	American Robin		<i>Picoides pubescens</i>	Downy Woodpecker
				<i>Sturnus vulgaris</i>	European Starling		<i>Empidonax traillii</i>	Willow Flycatcher
				<i>Dendroica petechia</i>	Yellow Warbler		<i>Hirundo rustica</i>	Barn Swallow
				<i>Geothlypis trichas</i>	Common Yellowthroat		<i>Turdus migratorius</i>	American Robin
				<i>Passerculus sandwichensis</i>	Savannah Sparrow		<i>Sturnus vulgaris</i>	European Starling
				<i>Melospiza melodia</i>	Song Sparrow		<i>Bombycilla cedrorum</i>	Cedar Waxwing
				<i>Agelaius phoeniceus</i>	Red winged Blackbird		<i>Dendroica petechia</i>	Yellow Warbler
				<i>Carpodacus mexicanus</i>	House Finch		<i>Passerculus sandwichensis</i>	Savannah Sparrow
				<i>Carduelis tristis</i>	American Goldfinch		<i>Melospiza melodia</i>	Song Sparrow
							<i>Cardinalis cardinalis</i>	Northern Cardinal
							<i>Passerina cyanea</i>	Indigo Bunting
							<i>Agelaius phoeniceus</i>	Red winged Blackbird
							<i>Icterus galbula</i>	Baltimore Oriole
							<i>Carpodacus mexicanus</i>	House Finch
							<i>Carduelis tristis</i>	American Goldfinch
							<i>Passer domesticus</i>	House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
16	0329276E 4682170N	North Chappus Road Chappus Road	Jun 6	<i>Charadrius vociferus</i> <i>Actitis macularius</i> <i>Colaptes auratus</i> <i>Contopus virens</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Hylocichla mustelina</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Killdeer Spotted Sandpiper Northern Flicker Eastern Wood Pewee Eastern Kingbird Warbling Vireo Carolina Wren House Wren Wood Thrush American Robin Gray Catbird Cedar Waxwing Yellow Warbler Common Yellowthroat Song Sparrow Northern Cardinal Red winged Blackbird Baltimore Oriole American Goldfinch	Jun 16	<i>Actitis macularius</i> <i>Contopus virens</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i>	Spotted Sandpiper Eastern Wood Pewee Warbling Vireo Blue Jay Carolina Wren House Wren American Robin Gray Catbird Song Sparrow Northern Cardinal Red winged Blackbird Brown headed Cowbird

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
17	0329380E 4681810N	North Chappus Road	Jun 6	<i>Charadrius vociferus</i> <i>Melanerpes carolinus</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Contopus virens</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Killdeer Red bellied Woodpecker Downy Woodpecker Northern Flicker Eastern Wood Pewee Warbling Vireo Blue Jay House Wren American Robin Gray Catbird Cedar Waxwing Song Sparrow Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Common Grackle Baltimore Oriole House Sparrow	Jun 16	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Mourning Dove Downy Woodpecker Northern Flicker Willow Flycatcher Warbling Vireo Carolina Wren House Wren American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch
18	0329745E 4681758N	North Chappus Road ? Drain	Jun 6	<i>Picoides pubescens</i> <i>Cyanocitta cristata</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Pipilo erythrophthalmus</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Quiscalus quiscula</i>	Downy Woodpecker Blue Jay Carolina Wren House Wren Gray Catbird Cedar Waxwing Eastern Towhee Northern Cardinal Indigo Bunting Common Grackle	Jun 16	<i>Phasianus colchicus</i> <i>Contopus virens</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Dumetella carolinensis</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Molothrus ater</i>	Ring necked Pheasant Eastern Wood Pewee Carolina Wren House Wren Gray Catbird Northern Cardinal Indigo Bunting Brown headed Cowbird

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
19	0329854E 4681940N	Chappus Woods	Jun 6	<i>Zenaida macroura</i> <i>Colaptes auratus</i> <i>Empidonax traillii</i> <i>Thryothorus ludovicianus</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Mourning Dove Northern Flicker Willow Flycatcher Carolina Wren American Robin European Starling Yellow Warbler Common Yellowthroat Song Sparrow Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch	Jun 16	<i>Colaptes auratus</i> <i>Contopus virens</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Northern Flicker Eastern Wood Pewee Willow Flycatcher Warbling Vireo Blue Jay American Robin Gray Catbird Yellow Warbler Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch
20	0329965E 4682016N	Chappus Woods	Jun 6	<i>Archilochus colubris</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Ruby throated Hummingbird Willow Flycatcher Warbling Vireo Blue Jay American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Common Yellowthroat Northern Cardinal Red winged Blackbird Brown headed Cowbird American Goldfinch	Jun 19	<i>Empidonax traillii</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Willow Flycatcher American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Common Yellowthroat Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Brown headed Cowbird American Goldfinch

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
21	0329615E 4682085N	Chappus Woods	Jun 6	<i>Picoides pubescens</i> <i>Contopus virens</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Pipilo erythrophthalmus</i> <i>Spizella pusilla</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Downy Woodpecker Eastern Wood Pewee Willow Flycatcher Warbling Vireo American Robin Gray Catbird Cedar Waxwing Yellow Warbler Eastern Towhee Field Sparrow Song Sparrow Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch	Jun 19	<i>Picoides pubescens</i> <i>Empidonax traillii</i> <i>Tachycineta bicolor</i> <i>Thryothorus ludovicianus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Spizella pusilla</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i>	Downy Woodpecker Willow Flycatcher Tree Swallow Carolina Wren American Robin Gray Catbird Yellow Warbler Field Sparrow Song Sparrow Northern Cardinal Red winged Blackbird Baltimore Oriole
22	0329530E 4681940N	Chappus Woods	Jun 6	<i>Phasianus colchicus</i> <i>Charadrius vociferus</i> <i>Melanerpes carolinus</i> <i>Sayornis phoebe</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Spizella pusilla</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Ring necked Pheasant Killdeer Red bellied Woodpecker Eastern Phoebe Blue Jay American Robin Gray Catbird Yellow Warbler Field Sparrow Song Sparrow Red winged Blackbird Baltimore Oriole American Goldfinch	Jun 16	<i>Empidonax traillii</i> <i>Tachycineta bicolor</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i>	Willow Flycatcher Tree Swallow American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Northern Cardinal Rose breasted Grosbeak Red winged Blackbird Brown headed Cowbird

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
23	0329904E 4681595N	Chappus Woods	Jun 6	<i>Anas platyrhynchos</i> <i>Picoides pubescens</i> <i>Contopus virens</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Hylocichla mustelina</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Cardinalis cardinalis</i> <i>Molothrus ater</i>	Mallard Downy Woodpecker Eastern Wood Pewee Carolina Wren House Wren Wood Thrush American Robin Gray Catbird Northern Cardinal Brown headed Cowbird	Jun 16	<i>Phasianus colchicus</i> <i>Thryothorus ludovicianus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Cardinalis cardinalis</i> <i>Dendroica petechia</i> <i>Agelaius phoeniceus</i>	Ring necked Pheasant Carolina Wren American Robin Gray Catbird Northern Cardinal Yellow Warbler Red winged Blackbird
24	0330365E 4681700N	North Spring Garden	Jun 8	<i>Aix sponsa</i> <i>Accipiter cooperii</i> <i>Picoides pubescens</i> <i>Contopus virens</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i>	Wood Duck Cooper's Hawk Downy Woodpecker Eastern Wood Pewee Warbling Vireo House Wren American Robin Yellow Warbler Common Yellowthroat Song Sparrow Northern Cardinal Red winged Blackbird Baltimore Oriole	Jun 20	<i>Accipiter cooperii</i> <i>Picoides pubescens</i> <i>Vireo olivaceus</i> <i>Poecile atricapillus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i>	Cooper's Hawk Downy Woodpecker Red eyed Vireo Black capped Chickadee Carolina Wren House Wren American Robin Gray Catbird Song Sparrow Northern Cardinal Rose breasted Grosbeak Indigo Bunting Red winged Blackbird Brown headed Cowbird Baltimore Oriole

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
25	0330402E 4681855N	North Spring Garden	Jun 8	<i>Picoides pubescens</i> <i>Contopus virens</i> <i>Vireo gilvus</i> <i>Vireo olivaceus</i> <i>Troglodytes aedon</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i>	Downy Woodpecker Eastern Wood Pewee Warbling Vireo Red eyed Vireo House Wren Gray Catbird Yellow Warbler Common Yellowthroat Song Sparrow Red winged Blackbird	Jun 20	<i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Contopus virens</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i>	Downy Woodpecker Northern Flicker Eastern Wood Pewee Warbling Vireo House Wren American Robin Gray Catbird Yellow Warbler Common Yellowthroat Song Sparrow Red winged Blackbird Baltimore Oriole
26	0330570E 4681804N	North Spring Garden	Jun 8	<i>Poecile atricapillus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Pheucticus ludovicianus</i> <i>Agelaius phoeniceus</i>	Black capped Chickadee House Wren American Robin Gray Catbird Yellow Warbler Northern Cardinal Rose breasted Grosbeak Red winged Blackbird	Jun 20	<i>Troglodytes aedon</i> <i>Hylocichla mustelina</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	House Wren Wood Thrush Gray Catbird Cedar Waxwing Yellow Warbler Northern Cardinal Red winged Blackbird Common Grackle Baltimore Oriole American Goldfinch

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
27	0330755E 4681670N	North Spring Garden	Jun 7	<i>Cyanocitta cristata</i> <i>Poecile atricapillus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Passerina cyanea</i> <i>Carduelis tristis</i>	Blue Jay Black capped Chickadee Carolina Wren House Wren American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Song Sparrow Indigo Bunting American Goldfinch	Jun 20	<i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Icterus galbula</i>	Downy Woodpecker Northern Flicker Carolina Wren House Wren American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Northern Cardinal Common Grackle Brown headed Cowbird Baltimore Oriole
28	0330895E 4681745N	North Spring Garden	Jun 8	<i>Gallinago delicata</i> <i>Picoides pubescens</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Wilson's Snipe Downy Woodpecker American Robin Gray Catbird Yellow Warbler Northern Cardinal Red winged Blackbird Baltimore Oriole American Goldfinch	Jun 20	<i>Picoides pubescens</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Pipilo erythrophthalmus</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i>	Downy Woodpecker American Robin Gray Catbird Yellow Warbler Eastern Towhee Northern Cardinal Red winged Blackbird
29	0330978E 4681694N	North Spring Garden	Jun 8	<i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i>	American Robin Gray Catbird Yellow Warbler Northern Cardinal Red winged Blackbird	Jun 20	<i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i>	American Robin Gray Catbird European Starling Yellow Warbler Northern Cardinal Red winged Blackbird

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
30	0330585E 4681450N	Lambton	Jun 7	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Corvus brachyrhynchos</i> <i>Stelgidopteryx serripennis</i> <i>Hirundo rustica</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Downy Woodpecker Eastern Kingbird Warbling Vireo American Crow Northern Rough winged Swallow Barn Swallow House Wren American Robin European Starling Northern Cardinal Red winged Blackbird Baltimore Oriole American Goldfinch House Sparrow	Jun 19	<i>Zenaida macroura</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Spizella passerina</i> <i>Spizella pusilla</i> <i>Agelaius phoeniceus</i> <i>Carpodacus mexicanus</i>	Mourning Dove Warbling Vireo House Wren American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Chipping Sparrow Field Sparrow Red winged Blackbird House Finch
31	0330892E 4681394N	Lambton	Jun 7	<i>Melanerpes carolinus</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Icterus spurius</i> <i>Icterus galbula</i>	Red bellied Woodpecker Downy Woodpecker Northern Flicker Eastern Kingbird Warbling Vireo Blue Jay House Wren American Robin European Starling Cedar Waxwing Song Sparrow Northern Cardinal Common Grackle Orchard Oriole Baltimore Oriole	Jun 20	<i>Myiarchus crinitus</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Pipilo erythrophthalmus</i> <i>Spizella pusilla</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Great Crested Flycatcher Eastern Kingbird Warbling Vireo House Wren American Robin Gray Catbird Eastern Towhee Field Sparrow Northern Cardinal Indigo Bunting Common Grackle Brown headed Cowbird Baltimore Oriole American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
32	0331247E 4681434N	Lambton	Jun 8	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Downy Woodpecker American Robin Gray Catbird European Starling Baltimore Oriole American Goldfinch House Sparrow	Jun 19	<i>Columba livia</i> <i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i>	Rock Pigeon Mourning Dove Downy Woodpecker Blue Jay American Robin Gray Catbird European Starling Cedar Waxwing
33	0331450E 4681040N	Lambton	Jun 8	<i>Buteo jamaicensis</i> <i>Picoides pubescens</i> <i>Vireo olivaceus</i> <i>Thryothorus ludovicianus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Red tailed Hawk Downy Woodpecker Red eyed Vireo Carolina Wren American Robin Gray Catbird Northern Cardinal Indigo Bunting Baltimore Oriole American Goldfinch House Sparrow	Jun 21	<i>Charadrius vociferus</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Poecile atricapillus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Pipilo erythrophthalmus</i> <i>Spizella passerina</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Killdeer Downy Woodpecker Northern Flicker Black capped Chickadee Carolina Wren House Wren American Robin Gray Catbird Cedar Waxwing Eastern Towhee Chipping Sparrow Northern Cardinal Indigo Bunting Baltimore Oriole American Goldfinch House Sparrow
34	0331678E 4680514N	North and South of Reddock Avenue	Jun 9	<i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Cardinalis cardinalis</i> <i>Molothrus ater</i> <i>Icterus galbula</i>	Eastern Kingbird Warbling Vireo Blue Jay House Wren Northern Cardinal Brown headed Cowbird Baltimore Oriole	Jun 23	<i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Blue Jay House Wren American Robin Gray Catbird European Starling Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
35	0331780E 4680168N	North and South of Reddock Avenue	Jun 9	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Cyanocitta cristata</i> <i>Poecile atricapillus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Hylocichla mustelina</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Downy Woodpecker Blue Jay Black capped Chickadee Carolina Wren House Wren Wood Thrush American Robin European Starling Northern Cardinal Indigo Bunting Common Grackle Brown headed Cowbird American Goldfinch House Sparrow	Jun 23	<i>Charadrius vociferus</i> <i>Columba livia</i> <i>Picoides pubescens</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Spizella passerina</i> <i>Cardinalis cardinalis</i> <i>Molothrus ater</i>	Killdeer Rock Pigeon Downy Woodpecker Blue Jay House Wren American Robin European Starling Chipping Sparrow Northern Cardinal Brown headed Cowbird
36	0331875E 4679910N	North and South of Reddock Avenue	Jun 9	<i>Vireo gilvus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Spizella passerina</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Warbling Vireo American Robin Gray Catbird Chipping Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Common Grackle Brown headed Cowbird Baltimore Oriole American Goldfinch	Jun 23	<i>Charadrius vociferus</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Spizella passerina</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus spurius</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Killdeer Eastern Kingbird Warbling Vireo American Robin Gray Catbird European Starling Cedar Waxwing Chipping Sparrow Song Sparrow Northern Cardinal Red winged Blackbird Orchard Oriole Baltimore Oriole American Goldfinch

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
37	0332088E 4679970N	Oakwood Bush	Jun 9	<i>Vireo gilvus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Warbling Vireo American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Song Sparrow Red winged Blackbird Baltimore Oriole American Goldfinch	Jun 23	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Spizella passerina</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Mourning Dove Downy Woodpecker American Robin Gray Catbird Cedar Waxwing Chipping Sparrow Song Sparrow Red winged Blackbird Baltimore Oriole American Goldfinch
38	0332157E 4679450N	Huron Church north of Cousineau Road	Jun 9	<i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Corvus brachyrhynchos</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Molothrus ater</i> <i>Carpodacus mexicanus</i> <i>Carduelis tristis</i>	Killdeer Mourning Dove American Crow American Robin European Starling Brown headed Cowbird House Finch American Goldfinch	Jun 23	<i>Charadrius vociferus</i> <i>Actitis macularia</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Killdeer Spotted Sandpiper Blue Jay American Robin European Starling Cedar Waxwing Song Sparrow Baltimore Oriole House Sparrow
39	0332494E 4679204N	Huron Church north of Cousineau Road	Jun 9	<i>Zenaida macroura</i> <i>Vireo gilvus</i> <i>Vireo olivaceus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Passer domesticus</i>	Mourning Dove Warbling Vireo Red eyed Vireo House Wren American Robin European Starling Song Sparrow Northern Cardinal Indigo Bunting House Sparrow	Jun 23	<i>Zenaida macroura</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Barn Swallow American Robin European Starling Common Grackle Brown headed Cowbird American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
40	0332868E 4679067N	Huron Church north of Cousineau Road	Jun 9	<i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Empidonax traillii</i> <i>Vireo olivaceus</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Downy Woodpecker Northern Flicker Willow Flycatcher Red eyed Vireo Gray Catbird European Starling Cedar Waxwing Yellow Warbler Northern Cardinal Red winged Blackbird Baltimore Oriole American Goldfinch	Jun 22	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Empidonax traillii</i> <i>Poecile atricapillus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Spizella passerina</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Downy Woodpecker Northern Flicker Willow Flycatcher Black capped Chickadee House Wren American Robin Gray Catbird Cedar Waxwing Yellow Warbler Chipping Sparrow Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Baltimore Oriole American Goldfinch House Sparrow
41	0331607E 4680690N	North and South of Reddock Avenue	Jun 9	<i>Ardea herodias</i> <i>Charadrius vociferus</i> <i>Petrochelidon</i> <i>pyrrhonota</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Great Blue Heron Killdeer Cliff Swallow Barn Swallow American Robin Gray Catbird Red winged Blackbird House Sparrow	Jun 22	<i>Charadrius vociferus</i> <i>Petrochelidon</i> <i>pyrrhonota</i> <i>Hirundo rustica</i> <i>Sturnus vulgaris</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Killdeer Cliff Swallow Barn Swallow European Starling Red winged Blackbird House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
42	0333138E 4678925N	Huron Church north of Cousineau Road	Jun 9	<i>Empidonax traillii</i> <i>Poecile atricapillus</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Willow Flycatcher Black capped Chickadee Yellow Warbler Song Sparrow Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch	Jun 22	<i>Zenaida macroura</i> <i>Empidonax traillii</i> <i>Hirundo rustica</i> <i>Poecile atricapillus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Passerculus sandwichensis</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Mourning Dove Willow Flycatcher Barn Swallow Black capped Chickadee American Robin Gray Catbird Yellow Warbler Savannah Sparrow Song Sparrow Red winged Blackbird Brown headed Cowbird American Goldfinch
43	0333435E 4678741N	Huron Church north of Cousineau Road	Jun 9	<i>Zenaida macroura</i> <i>Colaptes auratus</i> <i>Sturnus vulgaris</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Northern Flicker European Starling Song Sparrow Red winged Blackbird American Goldfinch House Sparrow	Jun 23	<i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Stelgidopteryx serripennis</i> <i>Hirundo rustica</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Carduelis tristis</i>	Killdeer Mourning Dove Northern Rough winged Swallow Barn Swallow Song Sparrow Red winged Blackbird American Goldfinch
44	0332450E 4679410N	St. Clair College ESA	Jun 13	<i>Zenaida macroura</i> <i>Turdus migratorius</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carpodacus mexicanus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove American Robin Cedar Waxwing Song Sparrow Northern Cardinal Common Grackle Brown headed Cowbird House Finch American Goldfinch House Sparrow	Jun 22	<i>Zenaida macroura</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Spizella passerina</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carpodacus mexicanus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Barn Swallow American Robin European Starling Chipping Sparrow Northern Cardinal Common Grackle Brown headed Cowbird House Finch American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
45	0333225E 4679040N	St. Clair College ESA	Jun 13	<i>Anas platyrhynchos</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Contopus virens</i> <i>Vireo olivaceus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Spizella passerina</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mallard Downy Woodpecker Northern Flicker Eastern Wood Pewee Red eyed Vireo American Robin Gray Catbird European Starling Yellow Warbler Common Yellowthroat Chipping Sparrow Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Brown headed Cowbird American Goldfinch House Sparrow	Jun 22	<i>Anas platyrhynchos</i> <i>Zenaid macroura</i> <i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Vireo olivaceus</i> <i>Stelgidopteryx serripennis</i> <i>Hirundo rustica</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Spizella passerina</i> <i>Spizella pusilla</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mallard Mourning Dove Downy Woodpecker Northern Flicker Red eyed Vireo Northern Rough winged Swallow Barn Swallow House Wren American Robin Gray Catbird European Starling Cedar Waxwing Yellow Warbler Chipping Sparrow Field Sparrow Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Common Grackle Brown headed Cowbird Baltimore Oriole American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
46	0334535E 4678090N	Montgomery Drive at Talbot Road	Jun 13	<i>Zenaida macroura</i> <i>Cyanocitta cristata</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Spizella passerina</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Passer domesticus</i>	Mourning Dove Blue Jay Carolina Wren House Wren American Robin European Starling Cedar Waxwing Yellow Warbler Chipping Sparrow Northern Cardinal Common Grackle Brown headed Cowbird House Sparrow	Jun 23	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Cyanocitta cristata</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Spizella passerina</i> <i>Cardinalis cardinalis</i> <i>Quiscalus quiscula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove Downy Woodpecker Blue Jay Carolina Wren House Wren American Robin European Starling Chipping Sparrow Northern Cardinal Common Grackle American Goldfinch House Sparrow
47	0335150E 4677610N	Howard Avenue at Talbot Road	Jun 13	<i>Zenaida macroura</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Passer domesticus</i>	Mourning Dove Blue Jay House Wren American Robin European Starling Cedar Waxwing Northern Cardinal Red winged Blackbird Common Grackle House Sparrow	Jun 24	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Turdus migratorius</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Passer domesticus</i>	Mourning Dove Downy Woodpecker American Robin Red winged Blackbird Common Grackle Brown headed Cowbird House Sparrow
48	0335560E 4677615N	Highway 401 and Talbot Road	Jun 13	<i>Zenaida macroura</i> <i>Empidonax traillii</i> <i>Troglodytes aedon</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Carduelis tristis</i>	Mourning Dove Willow Flycatcher House Wren Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird American Goldfinch	Jun 22	<i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Cedar Waxwing Yellow Warbler Song Sparrow Red winged Blackbird American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
49	0335700E 4677560N	Highway 401 and Talbot Road	Jun 13	<i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Killdeer Mourning Dove American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Red winged Blackbird Common Grackle Brown headed Cowbird American Goldfinch	Jun 22	<i>Branta canadensis</i> <i>Anas platyrhynchos</i> <i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Carduelis tristis</i>	Canada Goose Mallard Killdeer Mourning Dove American Robin European Starling Cedar Waxwing Yellow Warbler Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Common Grackle American Goldfinch
50	0336070E 4677385N	Highway 401 and Talbot Road	Jun 12	<i>Anas platyrhynchos</i> <i>Charadrius vociferus</i> <i>Actitis macularius</i> <i>Eremophila alpestris</i> <i>Turdus migratorius</i> <i>Passerculus sandwichensis</i> <i>Passer domesticus</i>	Mallard Killdeer Spotted Sandpiper Horned Lark American Robin Savannah Sparrow House Sparrow	Jun 24	<i>Anas platyrhynchos</i> <i>Ardea alba</i> <i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Eremophila alpestris</i> <i>Sturnus vulgaris</i> <i>Passerculus sandwichensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Passer domesticus</i>	Mallard Great Egret Killdeer Mourning Dove Horned Lark European Starling Savannah Sparrow Song Sparrow Northern Cardinal Red winged Blackbird Brown headed Cowbird House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
51	0335677E 4677070N	Highway 401 and Talbot Road	Jun 12	<i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Tyrannus tyrannus</i> <i>Eremophila alpestris</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Killdeer Mourning Dove Eastern Kingbird Horned Lark American Robin Gray Catbird Cedar Waxwing Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird Brown headed Cowbird American Goldfinch	Jun 24	<i>Charadrius vociferus</i> <i>Zenaida macroura</i> <i>Tyrannus tyrannus</i> <i>Eremophila alpestris</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Killdeer Mourning Dove Eastern Kingbird Horned Lark American Robin Gray Catbird Song Sparrow Northern Cardinal Red winged Blackbird Brown headed Cowbird American Goldfinch
52	0335503E 4676542N	Highway 401 and Talbot Road	Jun 12	<i>Buteo jamaicensis</i> <i>Charadrius vociferus</i> <i>Picoides pubescens</i> <i>Cyanocitta cristata</i> <i>Eremophila alpestris</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Toxostoma rufum</i> <i>Sturnus vulgaris</i> <i>Pipilo erythrophthalmus</i> <i>Poocetes gramineus</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Red tailed Hawk Killdeer Downy Woodpecker Blue Jay Horned Lark House Wren American Robin Gray Catbird Brown Thrasher European Starling Eastern Towhee Vesper Sparrow Song Sparrow Northern Cardinal Indigo Bunting Common Grackle Brown headed Cowbird American Goldfinch House Sparrow	Jun 24	<i>Eremophila alpestris</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Poocetes gramineus</i> <i>Passerculus sandwichensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Horned Lark Barn Swallow American Robin Gray Catbird European Starling Vesper Sparrow Savannah Sparrow Song Sparrow Northern Cardinal Indigo Bunting Red winged Blackbird Common Grackle Baltimore Oriole House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
53	0336544E 4677424N	Highway 401 and Talbot Road	Jun 13	<i>Zenaida macroura</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Spizella passerina</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Mourning Dove American Robin European Starling Cedar Waxwing Chipping Sparrow Red winged Blackbird Common Grackle American Goldfinch House Sparrow	Jun 24	<i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Spizella passerina</i> <i>Passerculus sandwichensis</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Quiscalus quiscula</i> <i>Molothrus ater</i> <i>Carpodacus mexicanus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	American Robin European Starling Chipping Sparrow Savannah Sparrow Song Sparrow Northern Cardinal Indigo Bunting Common Grackle Brown headed Cowbird House Finch American Goldfinch House Sparrow
54	0336709E 4677960N	Highway 401 and Talbot Road	Jun 13	<i>Charadrius vociferus</i> <i>Actitis macularius</i> <i>Sturnus vulgaris</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Passer domesticus</i>	Killdeer Spotted Sandpiper European Starling Red winged Blackbird Common Grackle House Sparrow	Jun 24	<i>Charadrius vociferus</i> <i>Columba livia</i> <i>Zenaida macroura</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Quiscalus quiscula</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Killdeer Rock Pigeon Mourning Dove American Robin European Starling Cedar Waxwing Song Sparrow Red winged Blackbird Common Grackle American Goldfinch House Sparrow
55	0327740E 4683580N	Brighton Beach area / Prospect Avenue	Jun 14	<i>Charadrius vociferus</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Killdeer Eastern Kingbird Warbling Vireo Barn Swallow American Robin Yellow Warbler Song Sparrow Red winged Blackbird House Sparrow	Jun 24	<i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Hirundo rustica</i> <i>Turdus migratorius</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i>	Eastern Kingbird Warbling Vireo Barn Swallow American Robin Yellow Warbler Song Sparrow Red winged Blackbird

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
56	0328260E 4684385N	Brighton Beach area / Russell Drive	Jun 14	<i>Picoides pubescens</i> <i>Vireo olivaceus</i> <i>Thryothorus ludovicianus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Passer domesticus</i>	Downy Woodpecker Red eyed Vireo Carolina Wren House Wren American Robin Gray Catbird European Starling Cedar Waxwing Song Sparrow Northern Cardinal Indigo Bunting Brown headed Cowbird Baltimore Oriole House Sparrow	Jun 24	<i>Accipiter cooperii</i> <i>Columba livia</i> <i>Zenaidura macroura</i> <i>Vireo olivaceus</i> <i>Cyanocitta cristata</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Bombycilla cedrorum</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Passer domesticus</i>	Cooper's Hawk Rock Pigeon Mourning Dove Red eyed Vireo Blue Jay House Wren American Robin European Starling Cedar Waxwing Song Sparrow Northern Cardinal Indigo Bunting House Sparrow
57	0329565E 4682340N	Malden Park	Jun 14	<i>Vireo gilvus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Carduelis tristis</i>	Warbling Vireo American Robin Gray Catbird European Starling Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird American Goldfinch	Jun 29	<i>Vireo gilvus</i> <i>Troglodytes aedon</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carduelis tristis</i>	Warbling Vireo House Wren American Robin Gray Catbird Yellow Warbler Song Sparrow Northern Cardinal Red winged Blackbird Brown headed Cowbird American Goldfinch

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
58	0329975E 4682225N	Malden Park	Jun 14	<i>Zenaida macroura</i> <i>Picoides pubescens</i> <i>Contopus virens</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Cyanocitta cristata</i> <i>Turdus migratorius</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Spizella passerina</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Mourning Dove Downy Woodpecker Eastern Wood Pewee Eastern Kingbird Warbling Vireo Blue Jay American Robin Cedar Waxwing Yellow Warbler Chipping Sparrow Indigo Bunting Red winged Blackbird Brown headed Cowbird Baltimore Oriole American Goldfinch	Jun 29	<i>Picoides pubescens</i> <i>Colaptes auratus</i> <i>Contopus virens</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Stelgidopteryx serripennis</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Cardinalis cardinalis</i> <i>Passerina cyanea</i> <i>Molothrus ater</i> <i>Icterus spurius</i> <i>Icterus galbula</i> <i>Carduelis tristis</i>	Downy Woodpecker Northern Flicker Eastern Wood Pewee Eastern Kingbird Warbling Vireo Northern Rough winged Swallow American Robin Gray Catbird Cedar Waxwing Yellow Warbler Common Yellowthroat Song Sparrow Northern Cardinal Indigo Bunting Brown headed Cowbird Orchard Oriole Baltimore Oriole American Goldfinch
59	0328635E 4682425N	Yawkey / Ojibway and EC Row	Jun 13	<i>Buteo jamaicensis</i> <i>Tyrannus tyrannus</i> <i>Turdus migratorius</i> <i>Sturnus vulgaris</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Carduelis tristis</i>	Red tailed Hawk Eastern Kingbird American Robin European Starling Yellow Warbler Common Yellowthroat Song Sparrow Red winged Blackbird American Goldfinch	Jun 29	<i>Buteo jamaicensis</i> <i>Zenaida macroura</i> <i>Tyrannus tyrannus</i> <i>Turdus migratorius</i> <i>Bombycilla cedrorum</i> <i>Dendroica petechia</i> <i>Geothlypis trichas</i> <i>Melospiza melodia</i> <i>Passerina cyanea</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Carpodacus mexicanus</i> <i>Carduelis tristis</i> <i>Passer domesticus</i>	Red tailed Hawk Mourning Dove Eastern Kingbird American Robin Cedar Waxwing Yellow Warbler Common Yellowthroat Song Sparrow Indigo Bunting Red winged Blackbird Brown headed Cowbird House Finch American Goldfinch House Sparrow

APPENDIX H
RESULTS OF BIRD POINT COUNT SURVEYS

Site #	UTM's	Location	Date (2006)	Species	Common Name	Date (2006)	Species	Common Name
60	0328430E 4682450N	Yawkey / Ojibway and EC Row	Jun 13	<i>Picoides pubescens</i> <i>Empidonax traillii</i> <i>Tyrannus tyrannus</i> <i>Vireo gilvus</i> <i>Thryothorus</i> <i>ludovicianus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Dendroica petechia</i> <i>Melospiza melodia</i> <i>Agelaius phoeniceus</i> <i>Passer domesticus</i>	Downy Woodpecker Willow Flycatcher Eastern Kingbird Warbling Vireo Carolina Wren American Robin Gray Catbird Yellow Warbler Song Sparrow Red winged Blackbird House Sparrow	Jun 29	<i>Picoides pubescens</i> <i>Empidonax traillii</i> <i>Vireo gilvus</i> <i>Thryothorus</i> <i>ludovicianus</i> <i>Turdus migratorius</i> <i>Dumetella carolinensis</i> <i>Sturnus vulgaris</i> <i>Cardinalis cardinalis</i> <i>Agelaius phoeniceus</i> <i>Molothrus ater</i> <i>Passer domesticus</i>	Downy Woodpecker Willow Flycatcher Warbling Vireo Carolina Wren American Robin Gray Catbird European Starling Northern Cardinal Red winged Blackbird Brown headed Cowbird House Sparrow

Bold denotes verified breeding (species observed at both visits)

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APPENDIX I

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-BBA1	Brighton Beach Area	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Unable to confirm mammal corridors 	<ul style="list-style-type: none"> Not able to verify – no access to property
W-BBA2	Brighton Beach Area	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Unable to confirm mammal corridors Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Not able to verify – no access to property
W-BBA3	Brighton Beach Area	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> Cooper's Hawk 	<ul style="list-style-type: none"> Unable to confirm mammal corridors 	<ul style="list-style-type: none"> Not able to verify if Cooper's Hawk nesting or other wildlife species present – no access to property
W-BBA4	Brighton Beach Area	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> Cooper's Hawk Gray Catbird 	<ul style="list-style-type: none"> East-west mammal corridors connecting residences on east side to factory property on west side Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Red Fox pups observed on factory property, opposite CUW, along tree row at south end of factory Cooper's Hawk, although observed in CUW, not nesting there
W-BBA5	Brighton Beach Area	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> mammal corridors connecting CUW with surrounding industrial property Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Human adapted wildlife in area
W-BBA6	Brighton Beach Area	MAM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridor from MAM to factory property west of Ojibway Parkway at south end of Russell Street 	<ul style="list-style-type: none"> Human adapted wildlife in area
W-BBA7	Brighton Beach Area	CUW	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Not able to verify – no access to property
W-BBA8	Brighton Beach Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> Eastern Kingbird 	<ul style="list-style-type: none"> Unable to verify 	<ul style="list-style-type: none"> Few observations made from outside fenced-in property
W-BBA9	Brighton Beach Area	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Grasslands and forest in area 	<ul style="list-style-type: none"> Carolina Wren Gray Catbird American Goldfinch 	<ul style="list-style-type: none"> North-south corridor for red fox, raccoon, skunk and white-tailed deer moving through CUS. One section of a larger bird migration corridor that extends north-south along east side of Detroit River 	<ul style="list-style-type: none"> Numerous species of wildlife use the area for feeding Red fox den located on Ontario Hydro property just north of BBA9 Brown snakes located in open area along north edge of FOD Large number of migratory bird nests
WBBA10	Brighton Beach Area	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal movement corridor along north forest edge Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Foraging area for birds and mammals
WBBA11	Brighton Beach Area	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal movement corridors along roadsides and through CUS Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Foraging area for birds and mammals
WBBA12	Brighton Beach Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal movement corridors along roadsides and through CUM Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Foraging area for birds and mammals

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
WBBA13	Brighton Beach Area	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Mammal movement corridors along roadsides and through CUM Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Foraging area for birds and mammals Deer bedding area in southeast corner
WBBA14	Brighton Beach Area	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Some evidence of north-south mammal movement corridors through CUM 	<ul style="list-style-type: none"> Other than white-tailed deer and some small mammal activity, this area has limited amounts of wildlife due to its proximity to the highway
WBBA15	Brighton Beach Area	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare No forested areas 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> North-south corridor for red fox, raccoon, skunk and white-tailed deer moving through CUM Small part of migration corridor along Detroit River for migrating birds. 	<ul style="list-style-type: none"> Feeding zone for migrating birds.
WBBA16	Brighton Beach Area	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area Potential winter deer yard Amphibian breeding ponds in spring 	<ul style="list-style-type: none"> Forest contains trees with numerous nest cavities deadfalls for breeding birds and mammals Pond inside forest for breeding amphibians 	<ul style="list-style-type: none"> American Goldfinch Carolina Wren Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors for white-tailed deer, red fox, raccoon, and skunk One section of a larger bird migration corridor that extends north-south along east side of Detroit River 	<ul style="list-style-type: none"> Breeding area for many species of migratory birds Amphibian breeding pond inside forest
WBBA17	Brighton Beach Area	CUM, TPO	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> Brown Thrasher American Goldfinch 	<ul style="list-style-type: none"> East-west corridor for red fox, raccoon and white-tailed deer moving along south side of CUM Small part of migration corridor along Detroit River for migrating birds. 	<ul style="list-style-type: none"> Feeding zone for migrating birds Brown snake and red-bellied snake located along roadside at west end of CUM
WBBA18	Brighton Beach Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird American Goldfinch Carolina Wren 	<ul style="list-style-type: none"> Mammal corridors for white-tailed deer, red fox, raccoon, and skunk Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Breeding area for migratory birds
WBBA19	Brighton Beach Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> no species of conservation concern were recorded 	<ul style="list-style-type: none"> White-tailed deer corridor along northeast side of CUM Coyote, fox and raccoon corridor along roadway on east side of CUM 	<ul style="list-style-type: none"> Green frogs in ditches along north edge of CUM
WBBA20	Brighton Beach Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Lots of fall seed plants for passerine migrants to forage on 	<ul style="list-style-type: none"> Gray Catbird American Goldfinch 	<ul style="list-style-type: none"> East-west mammal movement corridors along north and south sides of CUM Small part of migration corridor along Detroit River for migrating birds 	<ul style="list-style-type: none"> Fall season foraging area for migrating birds
WBBA21	Brighton Beach Area	CUW	<ul style="list-style-type: none"> Potential land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> Not able to verify – no access to property 	<ul style="list-style-type: none"> Unable to confirm mammal corridors 	<ul style="list-style-type: none"> Not able to verify – no access to property

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-ANS1	ANSI south of Broadway St	TPW	<ul style="list-style-type: none"> Land bird migratory stopover area Summer white-tailed deer bedding areas Potential winter deer yard 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern Forest contains trees with numerous nest cavities for breeding birds and mammals 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird Red-headed Woodpecker 	<ul style="list-style-type: none"> Mammal corridors throughout ANSI for white-tailed deer, raccoon, red fox, coyote, striped skunk and opossum. Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> ANSI Deer bedding area Red-headed Woodpecker is SARA species
W-YWK1	Yawkey	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridor through center of CUM 	<ul style="list-style-type: none"> This area has limited amounts of wildlife due to its proximity to the highway
W-YWK2	Yawkey	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridors through CUW Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> This area has limited amounts of wildlife due to its proximity to the highway and human disturbance
W-YWK3	Yawkey	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> North-south mammal corridors through CUM 	<ul style="list-style-type: none"> This area has limited amounts of wildlife due to its proximity to the highway and human disturbance
W-YWK4	Yawkey	MAS	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> North-south mammal corridors through CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> This area has limited amounts of wildlife due to its proximity to the highway and human disturbance
W-YWK5	Yawkey	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> Numerous north-south mammal corridors from residences to CUW, through to ANSI Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Garter snakes found in north end of CUW Although it is surrounded by human disturbances, it offers good habitat for foraging and nesting
W-YWK6	Yawkey	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> Red-tailed Hawk 	<ul style="list-style-type: none"> East-west mammal corridors through CUW Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Active Red-tailed Hawk nest in woodlot
W-YWK7	Yawkey	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Eastern Kingbird 	<ul style="list-style-type: none"> White-tailed deer and coyote corridor along east-west ridge on north side of CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Minimal wildlife due to landfill site adjacent to CUM
W-YWK8	Yawkey	MAM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Eastern Kingbird 	<ul style="list-style-type: none"> Mammal corridors along ditch area in marsh parallel to EC Row Expressway Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Chain-link fence on north side parallel to EC Row Expressway and Ojibway Parkway intersection limits movement of mammals north-south
W-CH1	Chappus Street Area	CUM	<ul style="list-style-type: none"> Potential snake hibernaculum 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern and snakes 	<ul style="list-style-type: none"> Spotted Sandpiper 	<ul style="list-style-type: none"> East-west mammal corridors connecting Matchette Road west to CUW east Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Possible garter snake hibernaculum at west end of CUM under tree

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Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-CH2	Chappus Street Area	FOD, CUW, CUS	<ul style="list-style-type: none"> Land bird migratory stopover area Amphibian breeding areas in creek drains 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Temporary creek drains 	<ul style="list-style-type: none"> Carolina Wren Eastern Towhee Gray Catbird Spotted Sandpiper 	<ul style="list-style-type: none"> Large continuous corridor of mammal trails extending from Matchete Road and EC Row Expressway in the northwest to Malden Road and Spring Garden Road in the southeast Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Creeks running east-west and north-south through center of corridor were breeding areas for American Toad, leopard frog and green frog. Potential Cooper's Hawk nesting site in CUW at south end of corridor (pair very active in spring around previous nest site).
W-CH3	Chappus Street Area	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Minor mammal corridors east-west 	<ul style="list-style-type: none"> White-tailed deer bedding areas around the CUT 's in the TPO area no movement of mammals north due to chain-linked fence along EC Row Expressway
W-CH4	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird Ruby-throated Hummingbird 	<ul style="list-style-type: none"> Mammal corridors connecting surrounding CUW's and CUT's Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Human influenced by motorbike trails throughout the area Creek drain flows parallel to south side of CUT
W-CH5	Chappus Street Area	CUT	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none">
W-CH6	Chappus Street Area	CUP	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> no evidence 	<ul style="list-style-type: none">
W-CH7	Chappus Street Area	CUW, SWD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridor along north side of CUW1 and SWD parallel to fence line Small part of larger north-south bird migration corridor continuous with Malden Park Forest on north side of EC Row Expressway 	<ul style="list-style-type: none"> No mammal corridors going north due to chain-linked fence along EC Row Expressway
W-CH8	Chappus Street Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> East-west mammal corridor connecting CUW on the west side to residences on the east side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-CH9	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting two CUW's on east and west sides Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Good area for breeding birds to nest
W-CH10	Chappus Street Area	TPO	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Habitat suitable for snakes protected by SARA 	<ul style="list-style-type: none"> Butler's Garter Snake Field Sparrow 	<ul style="list-style-type: none"> White-tailed deer, coyote and raccoon corridors connecting CUS and CUT north of area to CUT and CUW south and east of area Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Butler's Garter Snake is a SARA species It was only found in the TPO's of this section of the AOI.

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-CH11	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Eastern Towhee Field Sparrow Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors east-west through CUT and north-south connecting TPO with CUW1 Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-CH12	Chappus Street Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern and snakes 	<ul style="list-style-type: none"> American Goldfinch Carolina Wren 	<ul style="list-style-type: none"> Mammal and snake corridors connecting area to CUW1 and creek drain in center and CUW1 on south, east and west sides Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Garter snakes and Brown snakes inhabit area Mammals adapted to human activity using walking trails and 4x4 vehicle trails as corridors
W-CH13	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> habitat for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Carolina Wren Eastern Phoebe Gray Catbird 	<ul style="list-style-type: none"> White-tailed deer, coyote and raccoon corridors connecting CUT and FOD north and south of area Continuation of snake corridors in TPO Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Habitat connection with TPO that contains Butler's Garter Snake White-tailed deer beds in east end of area
W-CH14	Chappus Street Area	TPO	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Habitat suitable for snakes protected by SARA 	<ul style="list-style-type: none"> Butler's Garter Snake American Goldfinch Field Sparrow 	<ul style="list-style-type: none"> White-tailed deer, coyote and raccoon corridors connecting FOD and CUT north and south of area Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Butler's Garter Snake is a SARA species It was only found in the TPO's of this section of the AOI.
W-CH15	Chappus Street Area	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Human influenced area
W-CH16	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Minor mammal corridors between FOD's and residences Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Human influenced area
W-CH17	Chappus Street Area	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting MAM on east side to CUT1 on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-CH18	Chappus Street Area	MAM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting surrounding CUT's to CUM on east side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-CH19	Chappus Street Area	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting residence yards in south to MAM and FOD in north Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Human influenced area

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

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W-CH20	Chappus Street Area	MAM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Woodcock 	<ul style="list-style-type: none"> East-west mammal corridors for white-tailed deer and raccoon connecting surrounding CUT, FOD, CUM and TPO areas. Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-CH21	Chappus Street Area	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal and snake corridors connecting CUW on north side to residences and FOD on south side 	<ul style="list-style-type: none"> Lots of garter snakes in grassy areas Reports by local residents that fox snakes are common in area although none were observed by LGL field personnel
W-CH22	Chappus Street Area	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridors along north side of TPO connecting FOD on east side to residence back yards on west side 	<ul style="list-style-type: none"> Lots of human influence
W-CH23	Chappus Street Area	TPO	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting surrounding CUW and FDO's Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> North-south creek drain on east side of TPO used by American toad, leopard frog and green frog for breeding
W-CH24	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors north-south between creek drain on west side and CUT connecting CUW on north side to TPO and FOD on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> North-south creek drain on west side of CUT1 used by American toad, leopard frog and green frog for breeding
W-CH25	Chappus Street Area	CUP	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors north-south connect CUW on north side to FOD on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Human influence in this area
W-CH26	Chappus Street Area	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Carolina Wren Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors north-south connect FOD to CUP Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-CH27	Chappus Street Area	CUP	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors north-south connect CUP to residence back yards Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Human influence in this area
W-NSG1	North of Spring Garden Road	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west corridors connecting FOD on east side with Malden Road on west side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Mammal movement north blocked by chain-linked fence along EC Row Expressway

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-NSG2	North of Spring Garden Road	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridors connecting CUM on east side with CUS on west side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Mammal movement north blocked by chain-linked fence along EC Row Expressway
W-NSG3	North of Spring Garden Road	CUM, TPO	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors throughout CUM connecting FOD and SWD areas Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Lots of white-tailed deer bedding areas at south end of CUM
W-NSG4	North of Spring Garden Road	SWD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Carolina Wren Cooper's Hawk Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting CUM north to residence back yards south and FOD on east side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Cooper's Hawk possibly nesting in area
W-NSG5	North of Spring Garden Road	FOD, CUW	<ul style="list-style-type: none"> Land bird migratory stopover area Amphibian breeding ponds in forest 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Vernal ponds in forest 	<ul style="list-style-type: none"> Carolina Wren Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors east-west through forest connecting CUT on east side to CUM on west side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Cooper's Hawk possibly nesting in area Vernal ponds in west end of forest with breeding chorus frogs North movements impeded by chain-linked fence along EC Row Expressway Lots of white-tailed deer trails going east-west through FOD at south end
W-NSG6	North of Spring Garden Road	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors east-west through CUT connecting FOD's on each side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-NSG7	North of Spring Garden Road	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Eastern Towhee Gray Catbird 	<ul style="list-style-type: none"> Lots of white-tailed deer trails running east-west through CUT connecting FOD on west side to CUT on east side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> North movements impeded by chain-linked fence along EC Row Expressway Lots of breeding bird nests (old and new) found in CUT
W-NSG8	North of Spring Garden Road	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> East-west mammal corridors connecting CUW to resident backyards and CUT on east and south sides Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Huron Church Road is partial barrier to east side mammal movements
W-NSG9	North of Spring Garden Road	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No mammal corridors evident Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> CUW surrounded by major highways making it unsuitable for mammals and herpetofauna

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
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W-MAL1	Malden Park	MAM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridor east-west through MAM along fence row Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> South movements impeded by chain-linked fence along EC Row Expressway
W-MAL2	Malden Park	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> Mammal corridors east-west along park roadway plus north-south connections from FOD on north side to MAM on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Large portion of this habitat is manicured
W-MAL3	Malden Park	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting FOD to surrounding habitats Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> FOD is elevated and primarily a hillside forest
W-MAL4	Malden Park	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern and snakes 	<ul style="list-style-type: none"> American Goldfinch Eastern Kingbird Orchard Oriole Rough-winged Swallow 	<ul style="list-style-type: none"> Mammal corridors east-west along park roadways connecting FOD to CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Brown Snakes migrating along east-west roadways in late September
W-MAL5	Malden Park	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area Amphibian breeding ponds 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Vernal ponds for amphibians 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors throughout woodlot connecting CUS1 on west side to CUS1 on east side of Malden Road Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Pond in center of FOD Chorus frogs using pond as breeding area in spring
W-MAL6	East of Malden Road	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Brown snake and garter snake corridors east-west through TPO 	<ul style="list-style-type: none"> Brown snakes and garter snake found under rock and boards
W-MAL7	East of Malden Road	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> Mammal corridors east-west connecting FOD on east side to FOD on west side across Malden Road Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> White-tailed deer beds found in center of CUS
W-MAL8	East of Malden Road	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> Mammal corridor connecting CUS to FOD on east-west sides Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-MAL9	East of Malden Road	MAM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No mammal corridor evidence Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Brown snake and garter snake found on north edge of MAM
W-MAL10	East of Malden Road	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No corridor evidence 	<ul style="list-style-type: none">

APPENDIX I
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W-MAL11	East of Malden Road	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting TPO on east side to CUM on west side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-MAL12	East of Malden Road	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors at south end connecting FOD to CUW 	<ul style="list-style-type: none">
W-MAL13	East of Malden Road	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridor connecting TPO to area along fence row of EC Row Expressway Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-MAL14	East of Malden Road	CUW	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No corridor movements evident 	<ul style="list-style-type: none"> Wildlife presence limited by highways completely surrounding the habitat.
WABO1	NE Quadrant of EC Row and Huron Church	CUW	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No corridor movements evident 	<ul style="list-style-type: none"> Wildlife presence limited by highways completely surrounding the habitat.
W-LAM1	North of Lambton Street	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Grasslands around creek are suitable habitat for fox snake and garter snake Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Fox snake Eastern Kingbird 	<ul style="list-style-type: none"> East-west snake and mammal corridors connecting creek on west side to CUW on east side Mammal corridors connecting residence yards on north side with Spring Garden Park on south side 	<ul style="list-style-type: none"> Fox snake is a SARA species. Bicycle trails along west and south sides of TPO
W-LAM2	North of Lambton Street	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Orchard Oriole Red-bellied Woodpecker 	<ul style="list-style-type: none"> East-west snake and mammal corridors connecting creek on west side to CUW on east side North-south snake and mammal corridors connecting creek along north side of CUW to Spring Garden Park on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-LAM3	North of Lambton Street	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridor on west side of CUS connecting CUW's on north and south sides 	<ul style="list-style-type: none">
W-LAM4	North of Lambton Street	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Area enclosed by residences and businesses limiting the type of wildlife to human adapted species
W-LAM5	North of Lambton Street	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> East-west mammal corridors along forest edges Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-LAM6	North of Lambton Street	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> North-south mammal corridors leading from CUM to FOD north and CUW south 	<ul style="list-style-type: none"> White-tailed deer beds in area White-tailed deer feeding areas

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

Reference Number	Location	Habitats (ELC's)	Significant Wildlife Habitat				Comments
			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-LAM7	North of Lambton Street	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area Potential deer wintering yard 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird Carolina Wren 	<ul style="list-style-type: none"> Numerous mammal corridors, especially of White-tailed deer, throughout woodlot Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Deer beds found inside woodlot
W-LAM8	North of Lambton Street	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors from CUM to surrounding CUW 	<ul style="list-style-type: none">
W-LAM9	North of Lambton Street	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors across CUM and into surrounding CUW 	<ul style="list-style-type: none">
W-NGM1	North of Grand Marais Road	CUW	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> No corridor movements evident 	<ul style="list-style-type: none"> Area surrounded by heavy traffic
W-NGM2	North of Grand Marais Road	CUW	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors throughout bush connecting to surrounding residences Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Wildlife in area human influenced
W-TC1	Turkey Creek (Bridge and Creek Riparian)	Riparian	<ul style="list-style-type: none"> Colonial bird breeding colony on Turkey Creek Bridge 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Habitat suitable for fox snakes 	<ul style="list-style-type: none"> Fox Snake 	<ul style="list-style-type: none"> No corridors observed 	<ul style="list-style-type: none"> Fox snakes observed along creek just west of Turkey Creek bridge Fox snake is a SARA species Cliff Swallow nesting colony on ceiling of bridge Barn Swallow nesting colony on ceiling of bridge
W-RED1	North and South of Reddock Avenue	TPO	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Eastern Kingbird 	<ul style="list-style-type: none"> Mammal corridors running north-south through TPO connecting CUT and SWD on south side to SWD and another TPO on north side Snake corridors east-west and north-south through TPO 	<ul style="list-style-type: none"> White-tailed deer foraging zone Garter snake foraging zone
W-RED2	North and South of Reddock Avenue	SWD, FOD, CUW	<ul style="list-style-type: none"> Land bird migratory stopover area Potential winter deer yard Vernal ponds for breeding amphibians 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern Habitat suitable for fox snakes Vernal ponds 	<ul style="list-style-type: none"> Fox Snake American Goldfinch Carolina Wren Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting SWD to surrounding TPO, residences to FOD and FOD to CUM on east side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> White-tailed deer foraging zone White-tailed deer using SWD at north end of unit in TPO area (RED-1) for beds Chorus frog breeding ponds in woodlots Fox snake is a SARA species (reported in residence backyard and verified by local biologists)
W-RED3	North and South of Reddock Avenue	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Eastern Kingbird 	<ul style="list-style-type: none"> Mammal corridors connecting TPO to SWD Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> White-tailed deer bedding area
W-RED4	North and South of Reddock Avenue	CUM	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors from CUM into SWD 	<ul style="list-style-type: none">

APPENDIX I
WILDLIFE HABITAT ASSESSMENT SUMMARY

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			Seasonal Concentration of Animals ¹	Rare Vegetation Communities ² or Specialized Habitats to Wildlife ³	Species of Conservation Concern ⁴	Animal Movement Corridors ⁵	
W-RED5	North and South of Reddock Avenue	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting residence backyards on north side to CUT on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-RED6	North and South of Reddock Avenue	CUT	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting CUW on north side to SWD on south side 	<ul style="list-style-type: none">
W-RED7	North and South of Reddock Avenue	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Eastern Kingbird Gray Catbird Orchard Oriole 	<ul style="list-style-type: none"> East-west mammal corridors along north section of FOD 	<ul style="list-style-type: none"> White-tailed deer foraging area
W-RED8	North and South of Reddock Avenue	MAM	<ul style="list-style-type: none"> Land bird migratory stopover area Vernal pond in fragmite patch 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare Small pond in fragmite patch suitable for breeding amphibians 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting area to surrounding CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> No evidence of movements to the east because of Huron Church Road Green frogs breeding in fragmite patch next to Huron Church Road
W-OAK1	Oakwood Bush	CUW, FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting inside of woodlots to surrounding CUM's North-south mammal corridor connecting Cabana Road area in south end to FOD at north end Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Small creek drain east-west through center of CUW1
W-OAK2	Oakwood Bush	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting inside of forest to surrounding CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none">
W-HCL1	Between Huron Church Line and Huron Church Road	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors throughout CUW connecting to FOD on southeast side and surrounding residences Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Human adapted wildlife found in this area
W-HCL2	Between Huron Church Line and Huron Church Road	FOD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors throughout forest connect to CUT on east side and residences on north, west and south sides Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Cahill Drain flows along south side of forest
W-HCL3	Between Huron Church Line and Huron Church Road	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting FOD on south side to MAM on north side and SWD on east side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Cahill Drain flows along south side of CUW evidence mammals crossing from CUW to ESA on north side of Huron Church Road

APPENDIX I
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W-HCL4	Between Huron Church Line and Huron Church Road	MAM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors from MAM to CUT and SWD Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Evidence that mammals crossing from MAM to ESA on north side of Huron Church Road
W-HCL5	Between Huron Church Line and Huron Church Road	SWD	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Cahill Drain is a mammal corridor connecting W-ESA to W-HCL5 	<ul style="list-style-type: none"> Cahill Drain flows east-west through south side of SWD Track and trail evidence showed muskrat, raccoon, red fox, coyote and white-tailed deer using Cahill Drain as a corridor year-round
W-HCL6	Between Huron Church Line and Huron Church Road	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> Cahill Drain is a mammal corridor connecting W-ESA to W-HCL6 Snake corridors throughout center of CUT Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Cahill Drain flows east-west along north side of CUT Track and trail evidence showed muskrat, raccoon, red fox, coyote and white-tailed deer using Cahill Drain as a corridor year-round Lots of eastern garter snakes foraging in grassy areas of CUT
W-HCL7	Between Huron Church Line and Huron Church Road	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Savannah Sparrow 	<ul style="list-style-type: none"> East-west mammal corridors connecting CUT to MAS and CUM to residences on south side Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Entire CUM being cut in mid-June. Recommend not cutting until late July/early August when Savannah Sparrow young have fledged.
W-HCL8	Between Huron Church Line and Huron Church Road	MAS	<ul style="list-style-type: none"> Land bird migratory stopover area amphibian breeding pond 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare breeding pond/marsh habitat 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors connecting marsh to surrounding CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> American toad and chorus frogs seasonal breeding area within 20 m of Talbot Road
W-ESA1	St. Clair College	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Cahill Drain is a mammal corridor connecting W-ESA1 to W-HCL5 and W-HCL6 Mammal corridors throughout CUT connecting it to St. Clair College and residences 	<ul style="list-style-type: none"> Lots of human influence throughout CUT from St. Clair College (jogging trails, aerobics fitness center)
W-HWY1	Highway 401	CUM	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> Mammal corridors connecting CUW east to residences west. Mammal corridors connecting CUM to agricultural areas south and east. 	<ul style="list-style-type: none"> Foraging zone for migratory land birds during spring and fall migrations.
W-HWY2	Highway 401	CUS	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors connecting CUS to surrounding agricultural lands and CUM Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> White-tailed deer foraging and bedding area
W-HWY3	Highway 401	CUW	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Eastern Kingbird Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors north-south through CUW rows giving protection and access to surrounding habitats 	<ul style="list-style-type: none"> Tree rows next to open fields used for nesting
W-HWY4	Highway 401	OAO	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors to and from pond continuous with surrounding tree rows 	<ul style="list-style-type: none"> Green frog breeding pond

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W-HWY5	Highway 401	CUT	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Gray Catbird 	<ul style="list-style-type: none"> Mammal corridors along creek through woodlot and in ditches connecting both sides of Talbot Road and agricultural fields. Small part of larger north-south bird migration corridor 	<ul style="list-style-type: none"> Thicket and creek combination is excellent habitat containing species such as Brown Thrasher, Song Sparrow, Northern Cardinal, Indigo Bunting
W-HWY6	Highway 401	CUM1-1	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch 	<ul style="list-style-type: none"> Mammal corridors in creek drain along north side of cemetery 	<ul style="list-style-type: none"> Human influenced wildlife present
W-AGR1	Outer Drive	Agricultural	<ul style="list-style-type: none"> Land bird migratory stopover area 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Horned Lark Savannah Sparrow 	<ul style="list-style-type: none"> Mammal corridors along field edges next to CUT and creek drains 	<ul style="list-style-type: none"> Abandoned fields from previous season are excellent nesting areas for bird species such as Killdeer, Horned Lark and Vesper Sparrow. Feeding area for geese, doves, blackbirds, etc.
W-AGR2	Outer Drive	Agricultural	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> no species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors along field edges next to CUT and creek drains 	<ul style="list-style-type: none"> Field edges next to drain were nesting areas for geese and ducks
W-AGR3	Outer Drive	Agricultural	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> No areas that would contain wildlife uncommon or rare 	<ul style="list-style-type: none"> No species of conservation concern were recorded 	<ul style="list-style-type: none"> Mammal corridors along field edges next to CUT and creek drains 	<ul style="list-style-type: none"> Abandoned fields from previous season are excellent nesting areas for bird species
W-AGR4	South Talbot Road east of Outer Drive	Agricultural	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> Horned Lark Vesper Sparrow 	<ul style="list-style-type: none"> Mammal corridors along field edges connecting to CUT and creek within 	<ul style="list-style-type: none"> Abandoned fields from previous season are excellent nesting areas for bird species
W-RES1	Montgomery Drive	Urban	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Carolina Wren 	<ul style="list-style-type: none"> Mammal movements in and around residences 	<ul style="list-style-type: none"> Wildlife adapted to human presence (bird feeders, human structures for dwellings and surrounding woodlots as suitable nesting areas for migratory birds) Mammals, such as eastern cottontails, forage on residence lawns.
W-RES2	Chelsea Drive	Urban	<ul style="list-style-type: none"> No evidence 	<ul style="list-style-type: none"> Habitat suitable for breeding birds of conservation concern 	<ul style="list-style-type: none"> American Goldfinch Carolina Wren 	<ul style="list-style-type: none"> Mammal movements in and around residences 	<ul style="list-style-type: none"> Wildlife adapted to human presence (bird feeders, human structures for dwellings and surrounding woodlots as suitable nesting areas for migratory birds) Mammals, such as eastern cottontails, forage on residence lawns.

Notes:

¹ Seasonal concentration of animals includes: winter deer yards; moose late winter habitat; colonial bird nesting sites; waterfowl stopover and staging areas; waterfowl nesting areas; shorebird migratory stopover areas; landbird migratory stopover areas; raptor winter feeding and roosting areas; wild turkey winter range; turkey vulture summer roosting areas; reptile hibernacula; bat hibernacula; bullfrog concentration areas; and, migratory butterfly stopover areas.

² Rare vegetation communities include: alvars; tall-grass prairies; savannahs; rare forest types; talus slopes; rock barrens; sand barrens; and, Great Lakes dunes.

³ Specialized habitats for wildlife include: habitat for area-sensitive species; forests providing a high diversity of habitats; old-growth or mature forest stands; foraging areas with abundant mast; amphibian woodland breeding ponds; turtle nesting habitat; specialized raptor nesting habitat; special moose habitat (calving areas, aquatic feeding areas and mineral licks); and, mink, otter, marten or fisher denning sites; cliffs and caves; and, seeps and springs.

⁴ Species of conservation concern include: globally rare; nationally rare; provincially rare; regionally rare; locally rare; and, species of concern to the planning authority.

⁵ Animal movement corridors include dwelling habitat for plants and animals; and, conduits for daily and seasonal movements of animals, dispersal of organisms and genes and long-distance range shifts of species.

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APPENDIX J

Performance Measure	Criteria/Indicator	Measurement/Units	Natural Alternative 1A Plaza B or C																				
			Segments-Malden Road to North Talbot Rd																				
			Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd					
			G-H			H-I			I-J			J-K			K-L			L-M					
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance			
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low						
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low									
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low									
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low									
												Benson Drain	Stream Corridor	Low									
												Dickson Drain	Stream Corridor	Low									
									No Name Tributary of Dickson Drain	Stream Corridor	Low												
			Total High	0		Total High	0		Total High	0		Total High	0		Total High	0		Total High	0				
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0				
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1				
Communities/Ecosystems	Impacts to Terrestrial Communities/Ecosystems	Community type, area, significance and sensitivity	Area Displaced	0.36	High	Area Displaced	0.00	High	Area Displaced	0.08	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High
			Area Displaced	2.18	Moderate	Area Displaced	0.30	Moderate	Area Displaced	0.66	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate
			Area Displaced	7.28	Low	Area Displaced	2.51	Low	Area Displaced	3.06	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low
				Total Area Displaced	9.82		Total Area Displaced	2.81		Total Area Displaced	3.81		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00			
	Impacts to Aquatic	Community type, area, significance and sensitivity	Basin Drain	0.04	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low
			Cahill Drain		Low	Cahill Drain		Low	Cahill Drain	0.02	Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.01	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.03	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
			Grand Marais Drain	0.09	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low
			Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain	0.06	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate
Marentette Drain			0.03	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	
Wolfe Drain		Low	Wolfe Drain		Low	Wolfe Drain	0.01	Low	Wolfe Drain	0.54	Low	Wolfe Drain		Low	Wolfe Drain		Low	Wolfe Drain		Low			
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.29	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate			
Youngstown Drain	0.04	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low			
Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.39	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate			
Area Displaced	0.17	Low	Area Displaced	0.00	Low	Area Displaced	0.02	Low	Area Displaced	0.54	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low			
Area Displaced			Area Displaced			Area Displaced			Area Displaced			Area Displaced			Area Displaced			Area Displaced					
Total Area Displaced	0.03	0.20	Total Area Displaced	0.00	0.00	Total Area Displaced	0.00	0.41	Total Area Displaced	0.00	0.54	Total Area Displaced	0.00	0.00	Total Area Displaced	0.00	0.00	Total Area Displaced	0.00	0.00			
Populations/Species	Impacts to Species at Risk	Species name, Type/Area and significance	Provincially Rare Specimens/Colonies		45	Provincially Rare Specimens/Colonies		6	Provincially Rare Specimens/Colonies		51	Provincially Rare Specimens/Colonies		0	Provincially Rare Specimens/Colonies		0	Provincially Rare Specimens/Colonies		0			
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severances of surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																					
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells Area in ha within RDW																					
Other Natural Resources	Impacts to mineral																						
Factor Summary:																							
			1-High Impact	2-Medium Impact	3-Low Impact	4-Neutral/No Impact	5-Low Benefit	6-Medium Benefit	7-High Benefit														

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 1A Option 2 Plaza B or C																
				Segments-Malden Road to North Talbot Rd																
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd		
			G-H			H-I			I-J			J-K			K-L			L-M		
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low			
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low						
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low						
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low						
												Benson Drain	Stream Corridor	Low						
												Dickson Drain	Stream Corridor	Low						
												No Name Tributary of Dickson Drain	Stream Corridor	Low						
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0	
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0	
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1	
Communities/Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity	Area Displaced	0.37	High	Area Displaced	0.00	High	Area Displaced	0.13	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High
			Area Displaced	2.18	Moderate	Area Displaced	0.30	Moderate	Area Displaced	1.20	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate
			Area Displaced	7.30	Low	Area Displaced	2.51	Low	Area Displaced	3.94	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low
			Total Area Displaced	9.85		Total Area Displaced	2.81		Total Area Displaced	5.26		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00	
			Basin Drain	0.04	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low
	Impacts to Aquatic Communities/ Ecosystems	Community type, area, significance and sensitivity	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.01	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.04	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
			Grand Marais Drain	0.09	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low
			Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain	0.06	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate
			Marentette Drain	0.03	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.21	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate			
Youngstown Drain	0.04	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low			
Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.31	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate			
Area Displaced	0.17	Low	Area Displaced	0.00	Low	Area Displaced		Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low			
Area Displaced	0.03	None	Area Displaced	0.00	None	Area Displaced		None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None			
			Total Area Displaced	0.20		Total Area Displaced	0.00		Total Area Displaced	0.31		Total Area Displaced	0.00		Total Area Displaced	0.00		Total Area Displaced	0.00	
Populations/Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies	45		Provincially Rare Specimens/Colonies	6		Provincially Rare Specimens/Colonies	41		Provincially Rare Specimens/Colonies	0		Provincially Rare Specimens/Colonies	0		Provincially Rare Specimens/Colonies	0	
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severanos c surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																		
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																		
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																		
Factor Summary:																				
Factor Score:																				
			1-High Impact	2-Medium Impact	3-Low Impact	4-Neutral/No Impact	5-Low Benefit	6-Medium Benefit	7-High Benefit											

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 1B Option 2 Plaza A																	
				Segments-Malden Road to North Talbot Rd																	
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd			
			G-H			H-I			I-J			J-K			K-L			L-M			
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low				
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low							
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low							
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low							
													Benson Drain	Stream Corridor	Low						
													Dickson Drain	Stream Corridor	Low						
													No Name Tributary of Dickson Drain	Stream Corridor	Low						
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0		Total High
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0		
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1		
Communities/Ecosystems	Impacts to Terrestrial Communities/Ecosystems	Community type, area, significance and sensitivity	Area Displaced	1.40	High	Area Displaced	0.00	High	Area Displaced	0.06	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High	
			Area Displaced	6.29	Moderate	Area Displaced	0.33	Moderate	Area Displaced	0.66	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	
			Area Displaced	10.65	Low	Area Displaced	2.91	Low	Area Displaced	2.82	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low	
			Total Area Displaced	18.34		Total Area Displaced	3.24		Total Area Displaced	3.54		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00		
			Basin Drain	0.11	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	
	Impacts to Aquatic Communities/Ecosystems	Community type, area, significance and sensitivity	Basin Drain	0.03	None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	
			Cahill Drain		Low	Cahill Drain		Low	Cahill Drain	0.01	Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.01	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.03	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Grand Marais Drain	0.09	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	
Lennon Drain		Moderate	Lennon Drain	0.02	Moderate	Lennon Drain	0.06	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate				
Marentette Drain	0.04	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None				
Wolfe Drain		Low	Wolfe Drain		Low	Wolfe Drain	0.01	Low	Wolfe Drain	0.54	Low	Wolfe Drain		Low	Wolfe Drain		Low				
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.29	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate				
Youngstown Drain	0.08	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low				
Area Displaced	0.00	Moderate	Area Displaced	0.02	Moderate	Area Displaced	0.39	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate				
Area Displaced	0.28	Low	Area Displaced	0.00	Low	Area Displaced	0.02	Low	Area Displaced	0.54	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low				
Area Displaced	0.07	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None				
Total Area Displaced		0.35	Total Area Displaced		0.02	Total Area Displaced		0.41	Total Area Displaced		0.54	Total Area Displaced		0.00	Total Area Displaced		0.00				
Populations/Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies	85		Provincially Rare Specimens/Colonies	16		Provincially Rare Specimens/Colonies	51		Provincially Rare Specimens/Colonies	0		Provincially Rare Specimens/Colonies	0		Provincially Rare Specimens/Colonies	0		
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severances of surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																			
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																			
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																			
Factor Summary:																					
Factor Score:																					
			1-High Impact	2-Medium Impact	3-Low Impact	4-Neutral/No Impact	5-Low Benefit	6-Medium Benefit	7-High Benefit												

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 1B Option 2 Plaza B or C																
				Segments-Malden Road to North Talbot Rd																
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd		
			G-H			H-I			I-J			J-K			K-L			L-M		
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low			
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low						
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low						
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low						
												Benson Drain	Stream Corridor	Low						
												Dickson Drain	Stream Corridor	Low						
												No Name Tributary of Dickson Drain	Stream Corridor	Low						
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0	
			Total Moderate	1		Total Moderate	0		Total Moderate	0		Total Moderate	0		Total Moderate	0		Total Moderate	0	
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1	
Communities/Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity	Area Displaced	0.41	High	Area Displaced	0.00	High	Area Displaced	0.13	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High
			Area Displaced	2.29	Moderate	Area Displaced	0.33	Moderate	Area Displaced	1.20	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate
			Area Displaced	7.42	Low	Area Displaced	2.91	Low	Area Displaced	3.94	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low
			Total Area Displaced	10.12		Total Area Displaced	3.24		Total Area Displaced	5.26		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00	
			Basin Drain	0.04	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low
	Impacts to Aquatic Communities/ Ecosystems	Community type, area, significance and sensitivity	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.01	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.04	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
			Grand Marais Drain	0.09	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low
			Lennon Drain		Moderate	Lennon Drain	0.02	Moderate	Lennon Drain		Moderate	Lennon Drain	0.06	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate
			Marentette Drain	0.03	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.16	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate			
Youngstown Drain	0.04	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low			
Area Displaced	0.00	Moderate	Area Displaced	0.02	Moderate	Area Displaced	0.27	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate			
Area Displaced	0.18	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low			
Area Displaced	0.03	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None			
			Total Area Displaced	0.21		Total Area Displaced	0.02		Total Area Displaced	0.27		Total Area Displaced	0.00		Total Area Displaced	0.00		Total Area Displaced	0.00	
Populations/Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies		46	Provincially Rare Specimens/Colonies		16	Provincially Rare Specimens/Colonies		41	Provincially Rare Specimens/Colonies		0	Provincially Rare Specimens/Colonies		0	Provincially Rare Specimens/Colonies		0
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severanos c surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																		
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																		
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																		
Factor Summary:																				
Factor Score:																				
			1-High Impact	2-Medium Impact	3-Low Impact	4-Neutral/No Impact	5-Low Benefit	6-Medium Benefit	7-High Benefit											

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 2B Plaza A																	
				Segments-Malden Road to North Talbot Rd																	
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd			
			G-H			H-I			I-J			J-K			K-L			L-M			
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low				
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low							
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low							
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low							
													Benson Drain	Stream Corridor	Low						
													Dickson Drain	Stream Corridor	Low						
													No Name Tributary of Dickson Drain	Stream Corridor	Low						
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0		Total High
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0		
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1		
Communities/Ecosystems	Impacts to Terrestrial Communities/Ecosystems	Community type, area, significance and sensitivity	Area Displaced	1.41	High	Area Displaced	0.09	High	Area Displaced	0.36	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High	
			Area Displaced	6.29	Moderate	Area Displaced	0.27	Moderate	Area Displaced	1.04	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	
			Area Displaced	10.91	Low	Area Displaced	3.58	Low	Area Displaced	2.46	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low	
			Total Area Displaced	18.61		Total Area Displaced	3.94		Total Area Displaced	3.86		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00		
			Basin Drain	0.11	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	
	Impacts to Aquatic Communities/Ecosystems	Community type, area, significance and sensitivity	Basin Drain	0.03	None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	
			Cahill Drain		Low	Cahill Drain		Low	Cahill Drain	0.02	Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.00	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.05	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Grand Marais Drain	0.06	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	
Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain	0.05	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate				
Marentette Drain	0.02	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None				
Wolfe Drain		Low	Wolfe Drain		Low	Wolfe Drain	0.01	Low	Wolfe Drain	0.59	Low	Wolfe Drain		Low	Wolfe Drain		Low				
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.29	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate				
Youngstown Drain	0.09	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low				
Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.38	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate				
Area Displaced	0.26	Low	Area Displaced	0.00	Low	Area Displaced	0.02	Low	Area Displaced	0.59	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low				
Area Displaced	0.05	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None				
Total Area Displaced		0.32	Total Area Displaced		0.00	Total Area Displaced		0.40	Total Area Displaced		0.59	Total Area Displaced		0.00	Total Area Displaced		0.00				
Populations/Species	Impacts to Species at	Species name, type and significance	Provincially Rare		69	Provincially Rare		23	Provincially Rare		33	Provincially Rare		0	Provincially Rare		0	Provincially Rare		0	
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severances of surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																			
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																			
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																			
Factor Summary:																					
Factor Score:																					
1-High Impact 2-Medium Impact 3-Low Impact 4-Neutral/No Impact 5-Low Benefit 6-Medium Benefit 7-High Benefit																					

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 2B Option 2 Plaza A																	
				Segments-Malden Road to North Talbot Rd																	
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd			
			G-H			H-I			I-J			J-K			K-L			L-M			
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low				
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low							
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low							
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low							
												Benson Drain	Stream Corridor	Low							
												Dickson Drain	Stream Corridor	Low							
												No Name Tributary of Dickson Drain	Stream Corridor	Low							
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0		Total High
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0		
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1		
Communities/Ecosystems	Impacts to Terrestrial Communities/Ecosystems	Community type, area, significance and sensitivity	Area Displaced	1.41	High	Area Displaced	0.09	High	Area Displaced	0.36	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High	
			Area Displaced	6.29	Moderate	Area Displaced	0.27	Moderate	Area Displaced	1.19	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	
			Area Displaced	10.91	Low	Area Displaced	3.57	Low	Area Displaced	3.09	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low	
			Total Area Displaced	18.61		Total Area Displaced	3.93		Total Area Displaced	4.64		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00		
			Basin Drain	0.11	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	
	Impacts to Aquatic Communities/Ecosystems	Community type, area, significance and sensitivity	Basin Drain	0.03	None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	
			Cahill Drain		Low	Cahill Drain		Low	Cahill Drain	0.02	Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.00	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.05	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Grand Marais Drain	0.06	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	
Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain	0.05	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate				
Marentette Drain	0.02	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None				
Wolfe Drain		Low	Wolfe Drain		Low	Wolfe Drain	0.01	Low	Wolfe Drain	0.59	Low	Wolfe Drain		Low	Wolfe Drain		Low				
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.29	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate				
Youngstown Drain	0.09	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low				
Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.38	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate				
Area Displaced	0.26	Low	Area Displaced	0.00	Low	Area Displaced	0.02	Low	Area Displaced	0.59	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low				
Area Displaced	0.05	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None				
Total Area Displaced		0.32	Total Area Displaced		0.00	Total Area Displaced		0.40	Total Area Displaced		0.59	Total Area Displaced		0.00	Total Area Displaced		0.00				
Populations/Species	Impacts to Species at	Species name, type and significance	Provincially Rare	69	Provincially Rare	23	Provincially Rare	33	Provincially Rare	0	Provincially Rare	0	Provincially Rare	0	Provincially Rare	0	Provincially Rare	0			
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severances of surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																			
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																			
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																			
Factor Summary:																					
Factor Score:																					
1-High Impact 2-Medium Impact 3-Low Impact 4-Neutral/No Impact 5-Low Benefit 6-Medium Benefit 7-High Benefit																					

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 2B Option 2 Plaza B or C																	
				Segments-Malden Road to North Talbot Rd																	
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd			
			G-H			H-I			I-J			J-K			K-L			L-M			
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low				
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low							
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low							
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low							
												Benson Drain	Stream Corridor	Low							
												Dickson Drain	Stream Corridor	Low							
												No Name Tributary of Dickson Drain	Stream Corridor	Low							
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0		Total High
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0		
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1		
Communities/Ecosystems	Impacts to Terrestrial Communities/Ecosystems	Community type, area, significance and sensitivity	Area Displaced	0.37	High	Area Displaced	0.09	High	Area Displaced	0.36	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High	
			Area Displaced	2.29	Moderate	Area Displaced	0.27	Moderate	Area Displaced	1.19	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	
			Area Displaced	7.58	Low	Area Displaced	3.57	Low	Area Displaced	3.09	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low	
			Total Area Displaced	10.24		Total Area Displaced	3.93		Total Area Displaced	4.64		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00		
			Basin Drain	0.04	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	
	Impacts to Aquatic Communities/Ecosystems	Community type, area, significance and sensitivity	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain	0.02	Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.00	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.05	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	
			Grand Marais Drain	0.06	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	
			Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain	0.05	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	
Marentette Drain	0.02	None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None				
Wolfe Drain		Low	Wolfe Drain		Low	Wolfe Drain	0.01	Low	Wolfe Drain	0.59	Low	Wolfe Drain		Low	Wolfe Drain		Low				
Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain	0.29	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate				
Youngstown Drain	0.05	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low				
Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.38	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate				
Area Displaced	0.16	Low	Area Displaced	0.00	Low	Area Displaced	0.02	Low	Area Displaced	0.59	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low				
Area Displaced	0.02	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None				
Total Area Displaced	0.18		Total Area Displaced	0.00		Total Area Displaced	0.40		Total Area Displaced	0.59		Total Area Displaced	0.00		Total Area Displaced	0.00					
Provincially Rare	49		Provincially Rare	23		Provincially Rare	33		Provincially Rare	0		Provincially Rare	0		Provincially Rare	0					
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severances of surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																			
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																			
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																			
Factor Summary:																					
Factor Score:																					
1-High Impact 2-Medium Impact 3-Low Impact 4-Neutral/No Impact 5-Low Benefit 6-Medium Benefit 7-High Benefit																					

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Alternative 3 Plaza A																		
				Segments-Malden Road to North Talbot Rd																		
Performance Measure	Criteria/Indicator	Measurement/Units	Malden Rd to Pulford			Pulford north of Lennon Drain			North of Lennon Drain to Cousineau Rd			Cousineau Rd to Howard Ave			Howard Ave to Highway 401			Highway 3 to North Talbot Rd				
			G-H			H-I			I-J			J-K			K-L			L-M				
			Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance	Name	Type	Significance		
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Basin Drain	Stream Corridor	Low	Oakwood Bush to Spring Garden ANSI	Strip Corridor	Low	Lennon Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low	Wolfe Drain	Stream Corridor	Low		
			Youngstown Drain	Stream Corridor	Low	Lennon Drain	Stream Corridor	Low	St. Clair College Prairie Remnant	Patch	Moderate	Collins Drain	Stream Corridor	Low	No Name Tributary of Wolfe Drain	Stream Corridor	Low					
			Marentette Drain	Stream Corridor	Low				St. Clair college Prairie Remnant to Spring Garden	Strip Corridor	Moderate	Burke Drain	Stream Corridor	Low								
			Grand Marais Drain	Stream Corridor	Moderate				Cahill Drain	Stream Corridor	Low	No Name Tributary of Burke Drain	Stream Corridor	Low								
			North of Spring Garden Road	Matrix	Low							Howard Avenue Drain	Stream Corridor	Low								
												Benson Drain	Stream Corridor	Low								
												Dickson Drain	Stream Corridor	Low								
												No Name Tributary of Dickson Drain	Stream Corridor	Low								
						Total High	0		Total High	0		Total High	0		Total High	0		Total High	0		Total High	0
			Total Moderate	1		Total Moderate	0		Total Moderate	2		Total Moderate	0		Total Moderate	0		Total Moderate	0			
			Total Low	4		Total Low	2		Total Low	2		Total Low	8		Total Low	2		Total Low	1			
Communities/Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity	Area Displaced	1.40	High	Area Displaced	0.00	High	Area Displaced	0.09	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High		
			Area Displaced	6.29	Moderate	Area Displaced	0.26	Moderate	Area Displaced	0.85	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate		
			Area Displaced	9.43	Low	Area Displaced	1.82	Low	Area Displaced	2.44	Low	Area Displaced	0.00	Low	Area Displaced	0.66	Low	Area Displaced	0.00	Low		
			Total Area Displaced	17.12		Total Area Displaced	2.09		Total Area Displaced	3.38		Total Area Displaced	0.00		Total Area Displaced	0.66		Total Area Displaced	0.00			
			Impacts to Aquatic Communities/ Ecosystems	Community type, area, significance and sensitivity	Basin Drain	0.11	Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low	Basin Drain		Low
					Basin Drain	0.03	None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None	Basin Drain		None
					Cahill Drain		Low	Cahill Drain		Low	Cahill Drain	0.00	Low	Cahill Drain		Low	Cahill Drain		Low	Cahill Drain		Low
					Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.00	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
					Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain	0.03	Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate	Cahill Drain		Moderate
					Grand Marais Drain	0.08	Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low	Grand Marais Drain		Low
Lennon Drain		Moderate			Lennon Drain		Moderate	Lennon Drain	0.05	Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate	Lennon Drain		Moderate			
Marentette Drain	0.03	None			Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None	Marentette Drain		None			
Wolfe Drain		Low			Wolfe Drain		Low	Wolfe Drain	0.01	Low	Wolfe Drain	0.12	Low	Wolfe Drain		Low	Wolfe Drain		Low			
Wolfe Drain		Moderate			Wolfe Drain		Moderate	Wolfe Drain	0.29	Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate	Wolfe Drain		Moderate			
Youngstown Drain	0.08	Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low	Youngstown Drain		Low					
Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.37	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate					
Area Displaced	0.27	Low	Area Displaced	0.00	Low	Area Displaced	0.01	Low	Area Displaced	0.12	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low					
Area Displaced	0.06	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None	Area Displaced	0.00	None					
Total Area Displaced		0.32	Total Area Displaced		0.00	Total Area Displaced		0.38	Total Area Displaced		0.12	Total Area Displaced		0.00	Total Area Displaced		0.00					
Provincially Rare		64	Provincially Rare		6	Provincially Rare		41	Provincially Rare		0	Provincially Rare		0	Provincially Rare		0					
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each alternative number of surface water drainages crossings by stream type number of encroachments on or severances of surface water drainages degree of compliance with Provincial and Federal Water Quality Guidelines and Stormwater Management requirements																				
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones affected area of groundwater recharge affected areas of seepage affected area of water table affected by each alternative (draw down zone) proximity of alternative to public and private drinking water wells																				
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW																				
Factor Summary:																						
Factor Score:																						
			1-High Impact	2-Medium Impact	3-Low Impact	4-Neutral/No Impact	5-Low Benefit	6-Medium Benefit	7-High Benefit													

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings										
Plaza A														
Performance Measure	Criteria/ Indicator	Measurement/ Units	From Crossing A			From Crossing B			From Crossing C			From Crossing C		
			A-G			B-G			C-E-G			C-G		
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance
Ecological Landscapes	Impacts to Ecological	Landscape name, type and significance	Detroit River	Stream Corridor	High	Detroit River	Stream Corridor	High	Detroit River	Stream Corridor	High	Detroit River	Stream Corridor	High
			Healy Drain	Stream Corridor	Low	Healy Drain	Stream Corridor	Low	McKee Creek	Stream Corridor	Low	McKee Creek	Stream Corridor	Low
			North of Amanda Street	Matrix	Moderate	North of Amanda Street	Matrix	Moderate	Healy Drain	Stream Corridor	Low	North of Amanda Street	Matrix	Moderate
			Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate	Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate	North of Amanda Street	Matrix	Moderate	Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate
			Chappus Street West of Sandwich Street NHF	Patch	Low	Ontario Power Generation NHF	Patch	Low	Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate			
									Sterling Marine Fuels NHF	Patch	Low			
Communities/ Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity	Area Displaced	2.98	High	Area Displaced	2.70	High	Area Displaced	2.69	High	Area Displaced	2.70	High
			Area Displaced	1.83	Moderate	Area Displaced	1.82	Moderate	Area Displaced	2.74	Moderate	Area Displaced	2.73	Moderate
			Area Displaced	27.77	Low	Area Displaced	26.24	Low	Area Displaced	25.44	Low	Area Displaced	22.86	Low
			Total Area Displaced	32.58		Total Area Displaced	30.77		Total Area Displaced	30.87		Total Area Displaced	28.29	
	Impacts to Aquatic Communities/	Community type, area, significance and	Healy Drain	0.01	Low	Healy Drain	0.03	Low	Healy Drain	0.03	Low	McKee Creek	0.03	Moderate
			McKee Drain	0.05	Moderate	Healy Drain	0.07	None	Healy Drain	0.04	None	McKee Drain	0.05	Moderate
			McKee Drain	0.11	None	McKee Drain	0.05	Moderate	McKee Creek	0.03	Moderate	McKee Drain	0.11	None
			Titcombe Drain	0.05	Moderate	McKee Drain	0.11	None	McKee Drain	0.05	Moderate	Titcombe Drain	0.05	Moderate
			Detroit River	Pier	Moderate	Titcombe Drain	0.05	Moderate	McKee Drain	0.11	None	No Name Tributary	0.01	Low
						Detroit River	Pier	Moderate	Titcombe Drain	0.05	Moderate			
			Area Displaced	0.10	Moderate	Area Displaced	0.10	Moderate	Area Displaced	0.13	Moderate	Area Displaced	0.13	Moderate
			Area Displaced	0.01	Low	Area Displaced	0.03	Low	Area Displaced	0.03	Low	Area Displaced	0.01	Low
			Area Displaced	0.11	None	Area Displaced	0.18	None	Area Displaced	0.15	None	Area Displaced	0.11	None
Total Area Displaced	0.22		Total Area Displaced	0.31		Total Area Displaced	0.31	Low	Total Area Displaced	0.25				
Populations/ Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies	232	High	Provincially Rare Specimens/Colonies	223	High	Provincially Rare Specimens/Colonies	231	High	Provincially Rare Specimens/Colonies	186	High
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each												
		number of surface water drainages crossings by												
		number of encroachments on or												
		degree of compliance with Provincial and Federal Water Quality												
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones												
		area of groundwater												
		areas of seepage												
		area of water table affected by each												
	proximity of alternative to public and private													
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW												
Factor Summary:														
Factor Score:														
1-High Impact 2-Medium Impact 3-Low Impact 4-Neutral/No Impact 5-Low Benefit 6-Medium Benefit 7-High Benefit														

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings										
Performance Measure	Criteria/ Indicator	Measurement/ Units	Plaza A											
			From Crossing A			From Crossing B			From Crossing C			From Crossing C		
			A-G			B-G			C-E-G			C-G		
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings							
				Plaza B							
				From Crossing C							
Performance Measure	Criteria/ Indicator	Measurement/ Units	C-E			E-F			F-G		
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance
Ecological Landscapes	Impacts to Ecological	Landscape name, type and significance	Detroit River	Stream Corridor	High	Broadway Drain	Stream Corridor	Low	McKee Drain	Stream Corridor	Low
			McKee Creek	Stream Corridor	Low				Titcombe Drain	Stream Corridor	Low
			Healy Drain	Stream Corridor	Low				North of Amanda Street	Matrix	Moderate
			Broadway Drain	Stream Corridor	Low				Malden park to Prairie Remnants ANSI	Strip Corridor	Moderate
			Sterling Marine Fuels NHF	Patch	Moderate						
Communities/ Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity			High						
			Area Displaced	1.12		Area Displaced	0.01	High	Area Displaced	0.89	High
			Area Displaced	0.90	Moderate	Area Displaced	0.70	Moderate	Area Displaced	0.49	Moderate
			Area Displaced	16.83	Low	Area Displaced	6.18	Low	Area Displaced	13.55	Low
			Total Area Displaced	18.86		Total Area Displaced	6.89		Total Area Displaced	14.93	
	Impacts to Aquatic Communities/	Community type, area, significance and	Broadway Drain	0.05	Low	Healy Drain	0.03	None	McKee Drain	0.02	Moderate
			Healy Drain	0.08	Low	McKee Drain	0.07	Moderate	McKee Drain	0.11	None
			Healy Drain	0.16	None	McKee Drain	0.07	Moderate	Titcombe Draine	0.02	Moderate
			McKee Creek	0.03	Moderate						
			Detroit River	Pier	Moderate						
			No Name Tributary	0.00	Low						
			Area Displaced	0.03	Moderate	Area Displaced	0.14	Moderate	Area Displaced	0.04	Moderate
			Area Displaced	0.13	Low	Area Displaced	0.00	Low	Area Displaced	0.00	Low
			Area Displaced	0.16	None	Area Displaced	0.03	None	Area Displaced	0.11	None
Total Area Displaced	0.32		Total Area Displaced	0.17		Total Area Displaced	0.15				
Populations/ Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies	83	High	Provincially Rare Specimens/Colonies	30	High	Provincially Rare Specimens/Colonies	82	High
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each									
		number of surface water drainages crossings by									
		number of encroachments on or									
		degree of compliance with Provincial and Federal Water Quality									
Groundwater	Change in	area of infiltration zones									

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings								
				Plaza B								
				From Crossing C								
Performance Measure	Criteria/ Indicator	Measurement/ Units	C-E			E-F			F-G			
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	
	groundwater conditions (quality and quantity)	area of groundwater										
		areas of seepage										
		area of water table affected by each										
		proximity of alternative to public and private										
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW										
Factor Summary:												
Factor Score:												
			1-High Impact	2-Medium Impact	3-Low Impact	4-Neutral/No Impact	5-Low Benefit	6-Medium Benefit	7-High Benefit			

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings										
Plaza B1														
Performance Measure	Criteria/ Indicator	Measurement/ Units	From Crossing B						From Crossing C					
			B-F			F-G			C-F			F-G		
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance
Ecological Landscapes	Impacts to Ecological	Landscape name, type and significance	Detroit River	Stream Corridor	High	McKee Drain	Stream Corridor	Low	Detroit River	Stream Corridor	High	McKee Drain	Stream Corridor	Low
			Healy Drain	Stream Corridor	Low	Titcombe Drain	Stream Corridor	Low	McKee Creek	Stream Corridor	Low	Titcombe Drain	Stream Corridor	Low
			Broadway Drain	Stream Corridor	Low	North of Amanda Street	Matrix	Moderate	Healy Drain	Stream Corridor	Low	North of Amanda Street	Matrix	Moderate
			Ontario Power Generation NHF	Patch	Low	Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate	Broadway Drain	Stream Corridor	Low	Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate
									Sterling Marine Fuels NHF	Patch	Low			
Communities/ Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity	Area Displaced	0.20	High	Area Displaced	0.89	High	Area Displaced	0.20	High	Area Displaced	0.89	High
			Area Displaced	0.70	Moderate	Area Displaced	0.49	Moderate	Area Displaced	1.60	Moderate	Area Displaced	0.49	Moderate
			Area Displaced	28.58	Low	Area Displaced	14.21	Low	Area Displaced	27.77	Low	Area Displaced	14.21	Low
			Total Area Displaced	29.48		Total Area Displaced	15.59		Total Area Displaced	29.57		Total Area Displaced	15.59	
	Impacts to Aquatic Communities/	Community type, area, significance and	Healy Drain	0.07	Low	McKee Drain	0.02	Moderate	Healy Drain	0.05	Low	McKee Drain	0.02	Moderate
			Healy Drain	0.24	None	McKee Drain	0.11	None	Healy Drain	0.22	None	McKee Drain	0.11	None
			McKee Drain	0.06	Moderate	Titcombe Drain	0.02	Moderate	McKee Creek	0.03	Moderate	Titcombe Drain	0.02	Moderate
			McKee Drain	0.07	Moderate			McKee Drain	0.06	Moderate				
			Detroit River	Pier	Moderate			McKee Drain	0.07	Moderate				
									Detroit River	Pier	Moderate			
						No Name Tributary	0.00	Low						
			Area Displaced	0.13	Moderate	Area Displaced	0.04	Moderate	Area Displaced	0.16	Moderate	Area Displaced	0.04	Moderate
			Area Displaced	0.07	Low	Area Displaced	0.00	Low	Area Displaced	0.05	Low	Area Displaced	0.00	Low
			Area Displaced	0.24	None	Area Displaced	0.11	None	Area Displaced	0.22	None	Area Displaced	0.11	None
			Total Area Displaced	0.44		Total Area Displaced	0.15		Total Area Displaced	0.43		Total Area Displaced	0.15	
Populations/ Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies	100	High	Provincially Rare Specimens/Colonies	85	High	Provincially Rare Specimens/Colonies	100	High	Provincially Rare Specimens/Colonies	85	High
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each number of surface water drainages crossings by number of encroachments on or degree of compliance with Provincial and Federal Water Quality												
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones area of groundwater areas of seepage area of water table affected by each proximity of alternative to public and private												
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW												
Factor Summary:														
Factor Score:														

1-High Impact 2-Medium Impact 3-Low Impact 4-Neutral/No Impact 5-Low Benefit 6-Medium Benefit 7-High Benefit

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings											
Performance Measure	Criteria/ Indicator	Measurement/ Units	Plaza B1												
			From Crossing B						From Crossing C						
			B-F			F-G			C-F			F-G			
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	

PRACTICAL ALTERNATIVE EVALUATION		Factor: Protect the Natural Environment		Natural Plazas and Crossings												
Plaza C																
From Crossing C																
Performance Measure	Criteria/ Indicator	Measurement/ Units	C-D			D-E			E-F			F-G			Total Area	Significance
			Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance	Name	Type/Area	Significance		
Ecological Landscapes	Impacts to Ecological Landscapes	Landscape name, type and significance	Detroit River	Stream Corridor	High	Healy Drain	Stream Corridor	Low				McKee Drain	Stream Corridor	Low		
			McKee Creek	Stream Corridor	Low	Ontario Power Generation NHF	Patch	Low				Titcombe Drain	Stream Corridor	Low		
			Healy Drain	Stream Corridor	Low							North of Amanda Street	Matrix	Moderate		
			Sterling Marine Fuels NHF	Patch	Low							Malden Park to Prairie Remnants ANSI	Strip Corridor	Moderate		
Communities/ Ecosystems	Impacts to Terrestrial Communities/ Ecosystems	Community type, area, significance and sensitivity	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.00	High	Area Displaced	0.89	High	16.16	Total High
			Area Displaced	1.62	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.49	Moderate	16.60	Total Moderate
			Area Displaced	6.97	Low	Area Displaced	2.76	Low	Area Displaced	10.09	Low	Area Displaced	13.41	Low	256.87	Total Low
			Total Area Displaced	8.59		Total Area Displaced	2.76		Total Area Displaced	10.09		Total Area Displaced	14.79		289.65	Total Area Displaced
	Impacts to Aquatic Communities/	Community type, area, significance and	Healy Drain	0.02	None	Healy Drain	0.05	None	Healy Drain	0.04	Low	McKee Drain	0.02	Moderate		
			McKee Drain	0.07	Moderate						McKee Drain	0.11	None			
			McKee Drain	0.08	Moderate						Titcombe Drain	0.02	Moderate			
			Detroit River	Pier	Moderate											
			No Name Tributary	0.15	Low											
			Area Displaced	0.15	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.00	Moderate	Area Displaced	0.04	Moderate	1.23	Total Moderate
			Area Displaced	0.15	Low	Area Displaced	0.00	Low	Area Displaced	0.04	Low	Area Displaced	0.00	Low	0.52	Total Low
			Area Displaced	0.02	None	Area Displaced	0.05	None	Area Displaced	0.00	None	Area Displaced	0.11	None	1.71	Total None
			Total Area Displaced	0.32		Total Area Displaced	0.05		Total Area Displaced	0.00		Total Area Displaced	0.15		3.46	Total Area
Populations/ Species	Impacts to Species at Risk	Species name, type and significance	Provincially Rare Specimens/Colonies	25	High	Provincially Rare Specimens/Colonies	43	High	Provincially Rare Specimens/Colonies	3	High	Provincially Rare Specimens/Colonies	82	High	1590	Total Provincially Rare
Surface Water	Changes in surface water conditions (quality and quantity)	area of surface drainage altered by each number of surface water drainages crossings by number of encroachments on or degree of compliance with Provincial and Federal Water Quality														
Groundwater	Change in groundwater conditions (quality and quantity)	area of infiltration zones area of groundwater areas of seepage area of water table affected by each proximity of alternative to public and private														
Other Natural Resources	Impacts to mineral, petroleum, granular (quarry) lands/easements	Area in ha within ROW														
Factor Summary:																
Factor Score:																
1-High Impact 2-Medium Impact 3-Low Impact 4-Neutral/No Impact 5-Low Benefit 6-Medium Benefit 7-High Benefit																

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APPENDIX K

-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  Alternative 1A - Plaza A
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features



environmental research associates



-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  Alternative 1A - Plaza B or C
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features



-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  Alternative 2A - Plaza A
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features



-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  Alternative 2A - Plaza B or C
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features

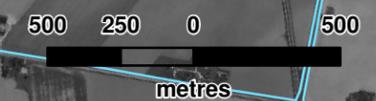


-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  Alternative 3 - Plaza A
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features



-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  Alternative 3 - Plaza B or C
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features

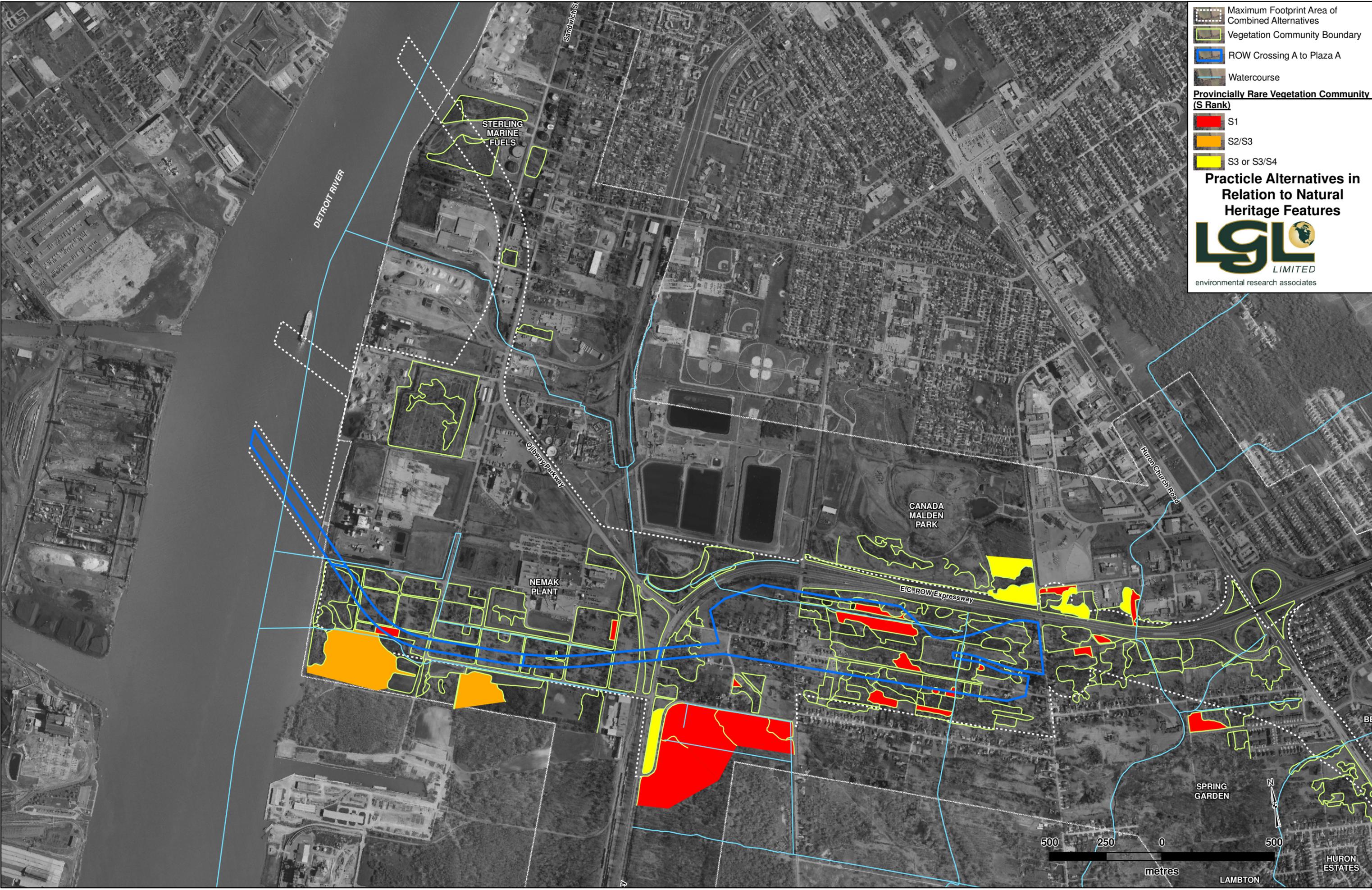


-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  ROW Crossing A to Plaza A
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practicle Alternatives in Relation to Natural Heritage Features

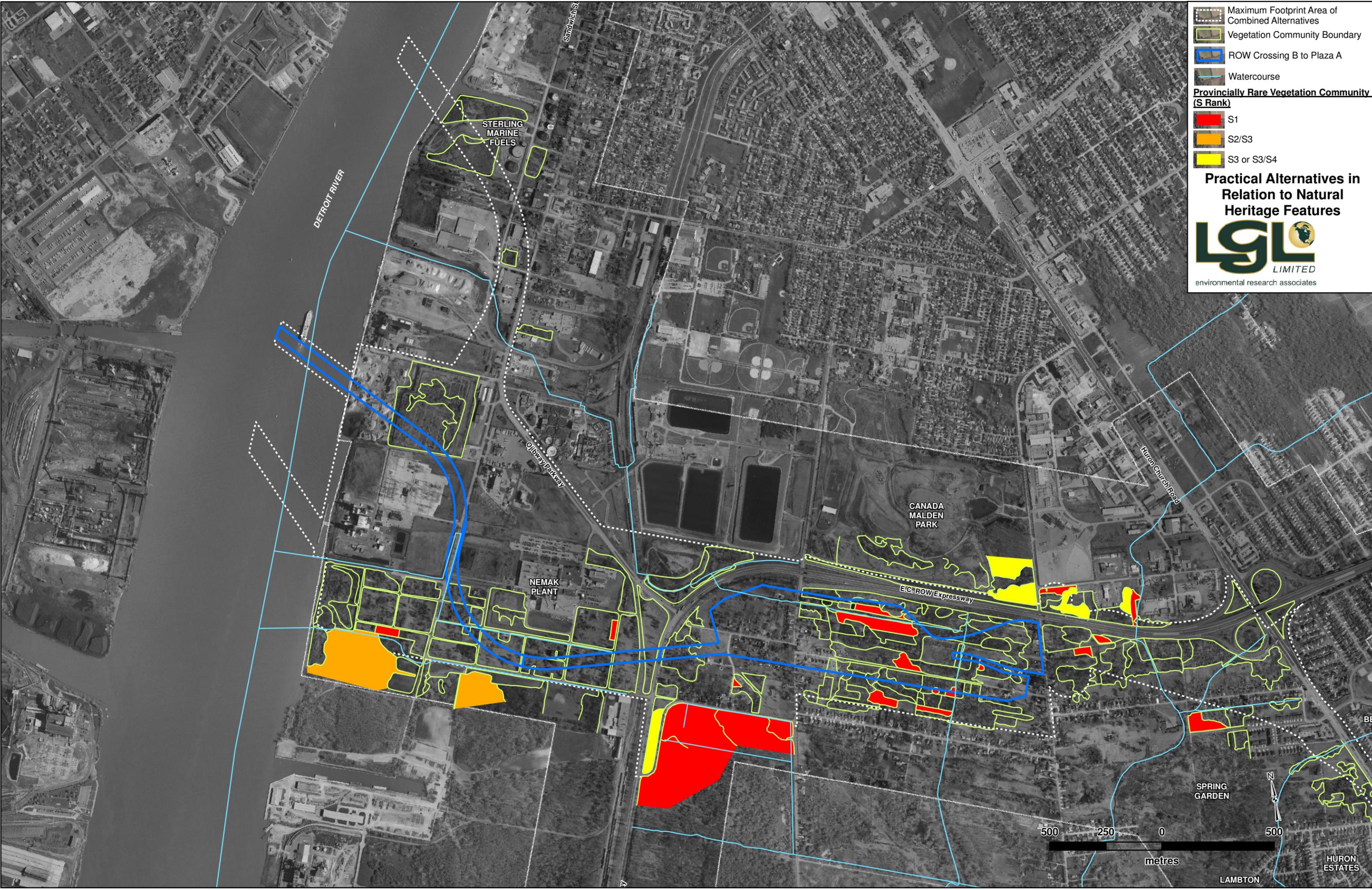


-  Maximum Footprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  ROW Crossing B to Plaza A
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features



DETROIT RIVER

STERLING MARINE FUELS

Sandwich St

Offway Parkway

NEMAK PLANT

CANADA MALDEN PARK

E.C. ROW Expressway

Huron Church Road

SPRING GARDEN

500 250 0 500

metres

LAMBTON

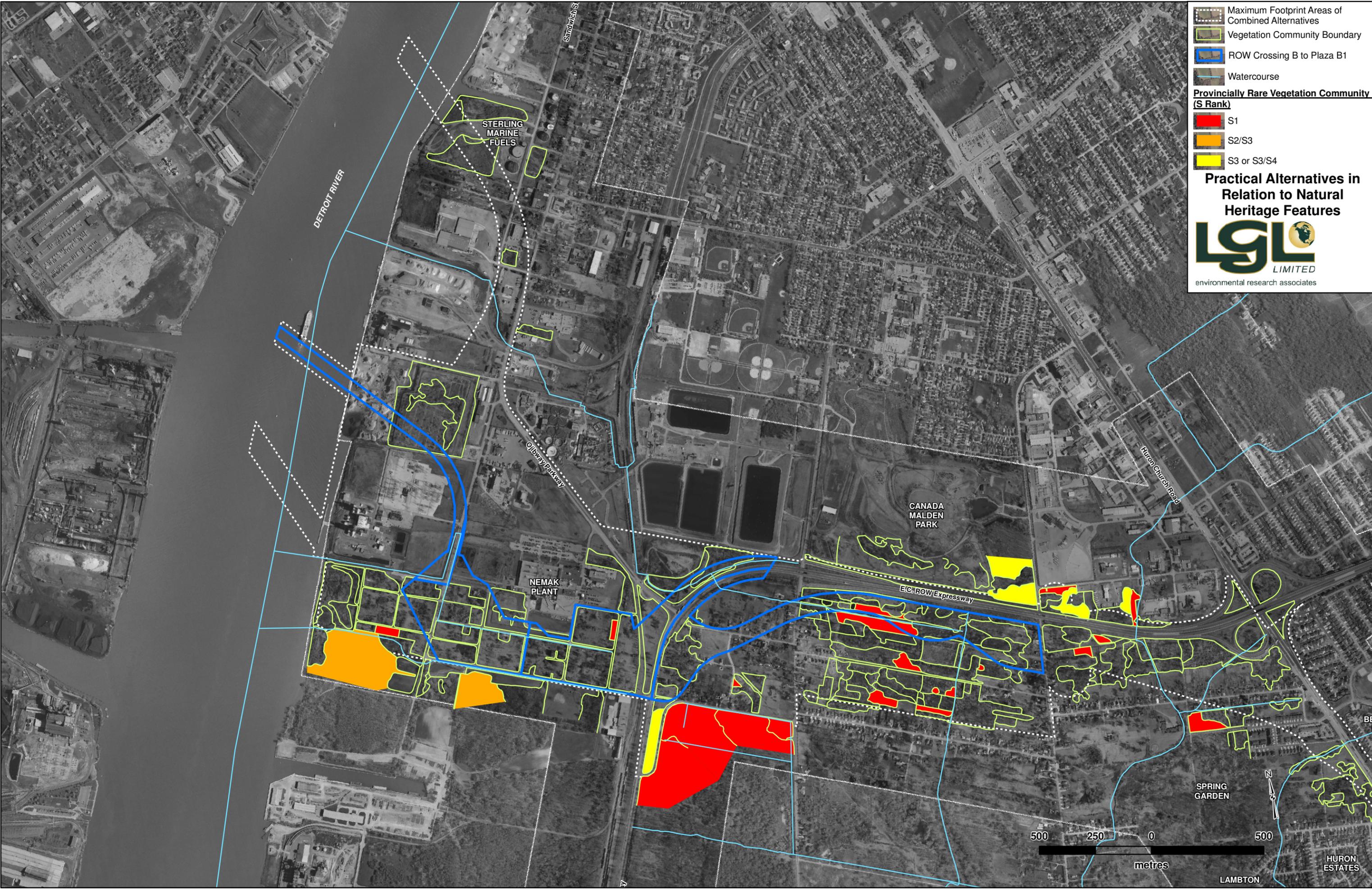
HURON ESTATES

-  Maximum Footprint Areas of Combined Alternatives
-  Vegetation Community Boundary
-  ROW Crossing B to Plaza B1
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features

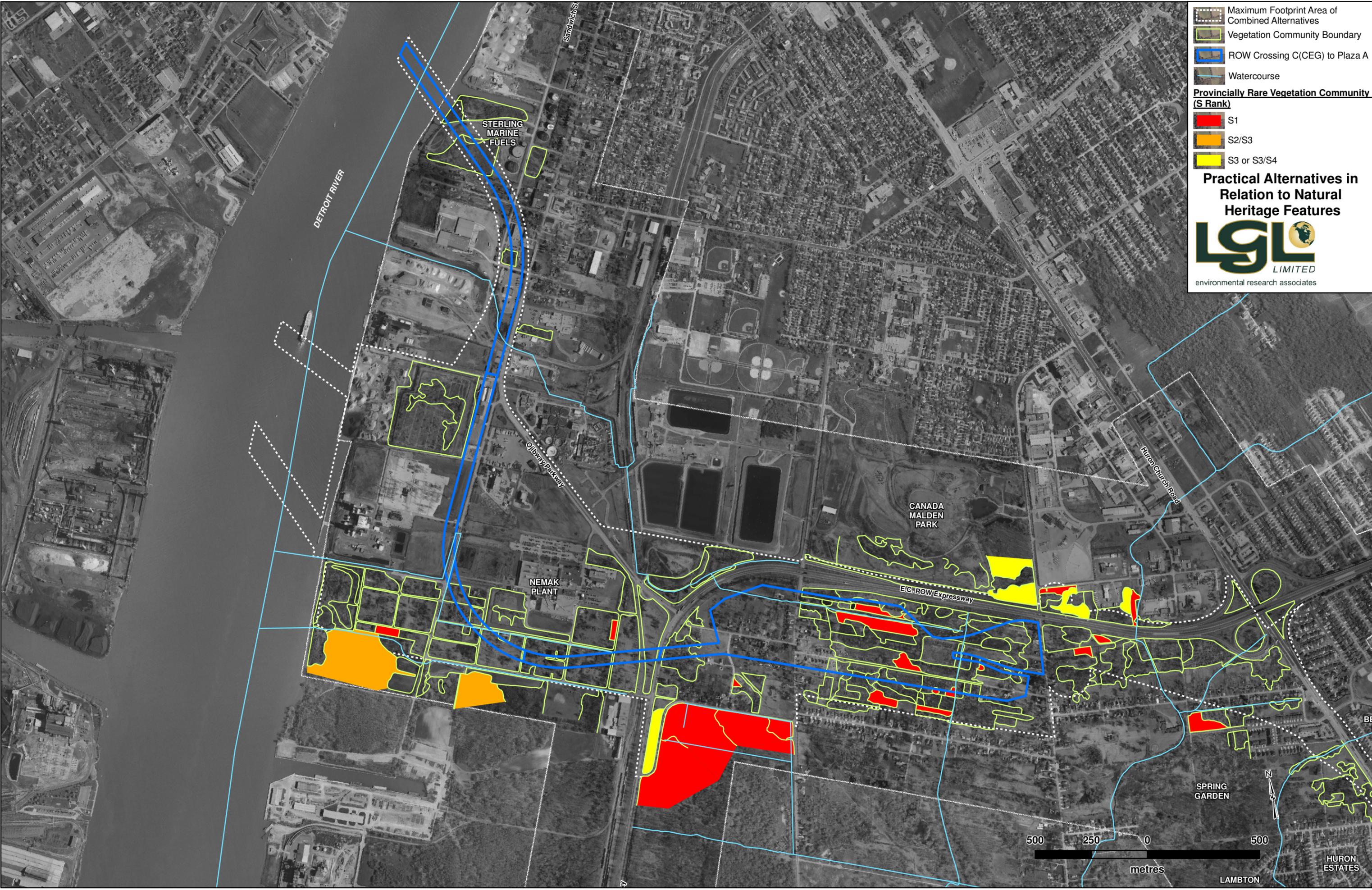


Maximum Footprint Area of Combined Alternatives
 Vegetation Community Boundary
 ROW Crossing C(CEG) to Plaza A
 Watercourse

Provincially Rare Vegetation Community (S Rank)
 S1
 S2/S3
 S3 or S3/S4

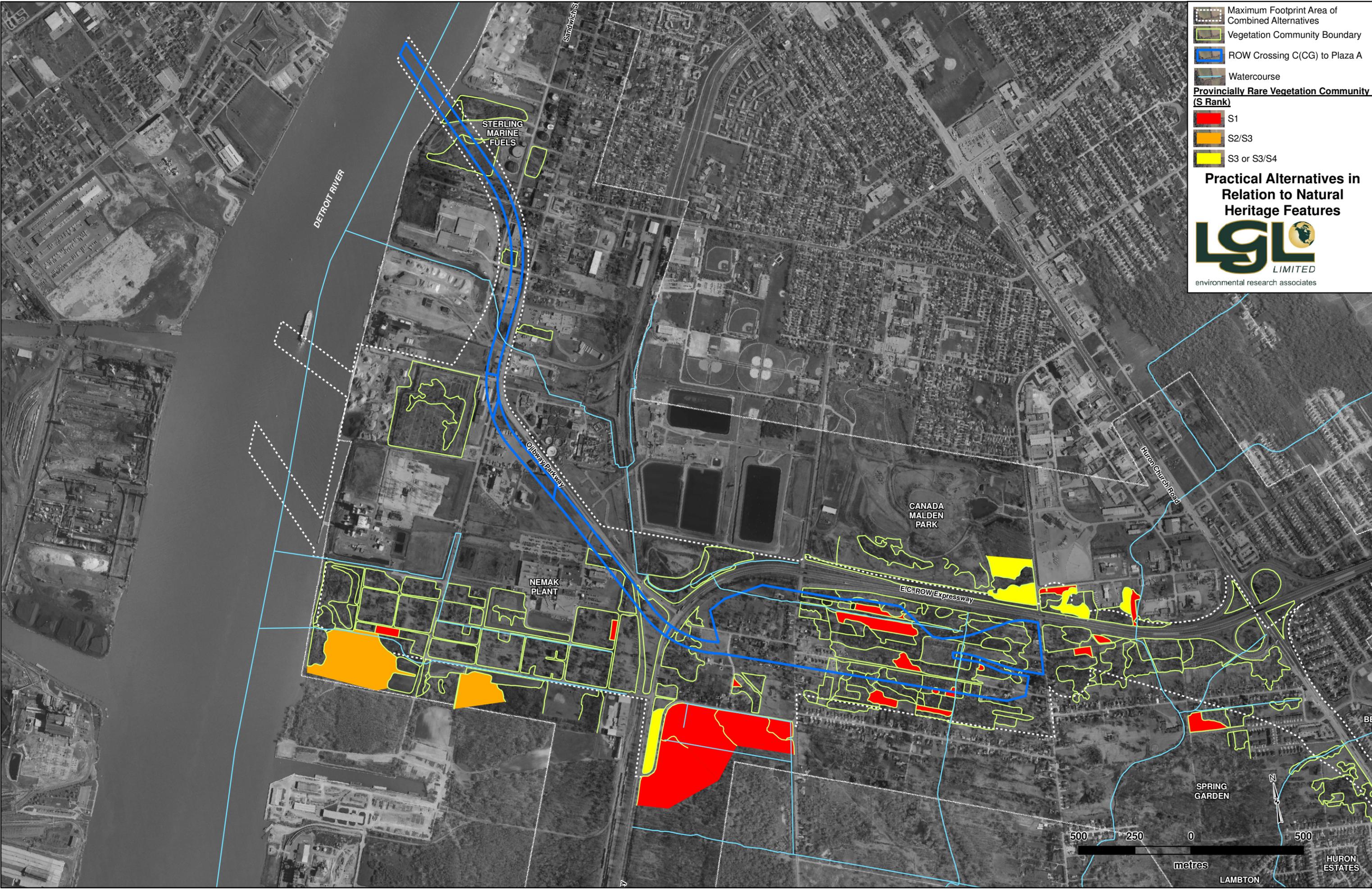
Practical Alternatives in Relation to Natural Heritage Features

 environmental research associates



 Maximum Footprint Area of Combined Alternatives
 Vegetation Community Boundary
 ROW Crossing C(CG) to Plaza A
 Watercourse
Provincially Rare Vegetation Community (S Rank)
 S1
 S2/S3
 S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features
 **LGL** LIMITED
 environmental research associates

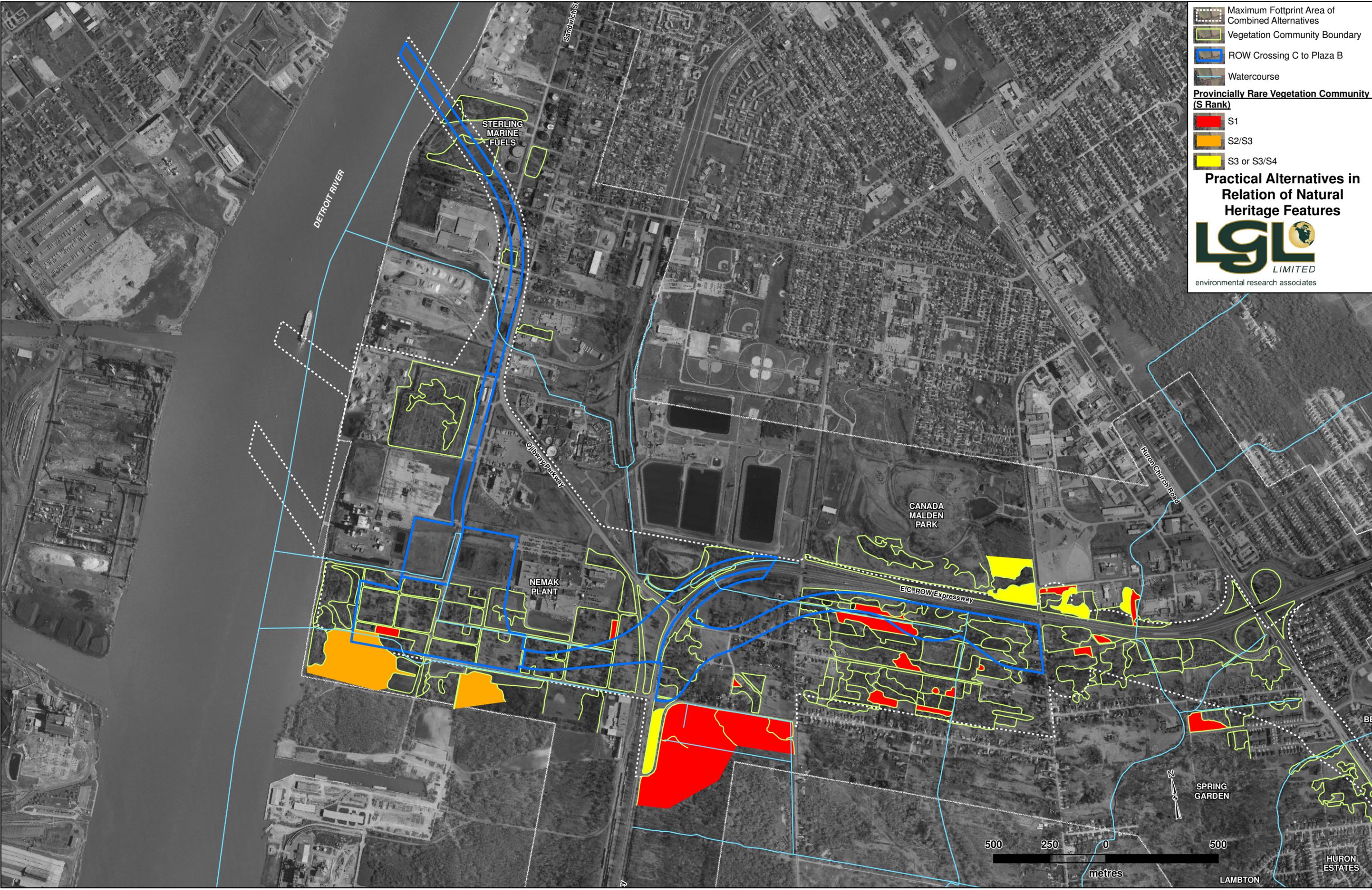


-  Maximum Fottprint Area of Combined Alternatives
-  Vegetation Community Boundary
-  ROW Crossing C to Plaza B
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation of Natural Heritage Features



500 250 0 500
metres



LAMBTON HURON ESTATES

-  Maximum Footprint of Combined Alternatives
-  Vegetation Community Boundary
-  ROW Crossing C to Plaza C
-  Watercourse

Provincially Rare Vegetation Community (S Rank)

-  S1
-  S2/S3
-  S3 or S3/S4

Practical Alternatives in Relation to Natural Heritage Features



500 250 0 500
 metres
 LAMBERTON ESTATES