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## APPENDIX D

Combined SNC-Lavalin and Ecoplans Working Plant List

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Scientific Name	Common Name	Srank <sup>3</sup>	COSEWIC <sup>4</sup>	MNR <sup>5</sup>	City of Toronto <sup>6</sup>	Greater Toronto Area <sup>6</sup>	Toronto Region Conservation Authority Rank <sup>6</sup>	CN Rail Line ROW	Mimico Creek M1, M2	Humber River						Black Creek		SNC Lavalin <sup>*</sup>	
										HR1	HR2	HR3	HR5	HR5 Incl.	HR6	HR8	BC1		BC2
<i>Acer negundo</i>	Manitoba Maple	S5			X	X	L+?	s	s	s	+	+					s	+	
<i>Acer platanoides</i>	Norway Maple	SE5			X	X	L+	s			+					+	+	+	
<i>Acer saccharinum</i>	Silver Maple	S5			X	X	L4						+						s
<i>Acer saccharum ssp. saccharum</i>	Sugar Maple	S5			X	X	L5	+		s			+		+		s		
<i>Achillea millefolium ssp. millefolium</i>	Common Yarrow	SE?			X	X	L+	s											
<i>Agrostis stolonifera</i>	Spreading Bentgrass	S5			X	X	L+?	s											
<i>Ailanthus altissima</i>	Tree-of-heaven	SE5			X	X	L+	+											
<i>Alliaria petiolata</i>	Garlic Mustard	SE5			X	X	L+			s	+	+	+		+	+		+	
<i>Allium vineale ssp. vineale</i>	Field Garlic	SE2					L+		s										
<i>Ambrosia artemisiifolia</i>	Annual Ragweed	S5			X	X	L5												s
<i>Ambrosia trifida</i>	Great Ragweed	S5			X	R	L5										s		
<i>Anemone canadensis</i>	Canada Anemone	S5			X	X	L5		s										
<i>Arctium minus ssp. minus</i>	Lesser Burdock	SE5			X	X	L+	s			+						+	+	
<i>Asclepias incarnata ssp. incarnata</i>	Swamp Milkweed	S5			X <sup>U</sup>	X	L4			s									
<i>Asclepias syriaca</i>	Common Milkweed	S5			X	X	L5		+								+		s
<i>Aster cordifolius</i>	Heart-leaved Aster	S5			X	X	L5		+	s							s		
<i>Aster ericoides ssp. ericoides</i>	Heath Aster	S5					L5		+									+	s
<i>Aster lanceolatus ssp. lanceolatus</i>	Panicled Aster	S5			X	X	L5				+						+		
<i>Aster macrophyllus</i>	Large-leaved Aster	S5			X	X	L5											+	
<i>Aster novae-angliae</i>	New England Aster	S5			X	X	L5	+	+		+						+		s
<i>Aster sp</i>	Aster Species							s											
<i>Bellis perennis</i>	Lawn Daisy	SE5			X	X	L+												s
<i>Bidens frondosa</i>	Devil's Beggar's Ticks	S5			X	X	L5		+									+	
<i>Brassica rapa</i>	Bird's Rape	SE5			X	X	L+	s											
<i>Bromus inermis ssp. inermis</i>	Smooth Brome	SE5			X	X	L+	s											
<i>Calamagrostis stricta ssp. stricta</i>	Northern Reed Grass	S5																	s
<i>Calystegia sepium ssp. angulata</i>	Hedge Bindweed	S5					L4		+										
<i>Carduus nutans ssp. nutans</i>	Musk Thistle	SE?			X	X	L+												
<i>Carex sp</i>	Sedge Species								s										

Scientific Name	Common Name	Srank <sup>3</sup>	COSEWIC <sup>4</sup>	MNR <sup>5</sup>	City of Toronto <sup>6</sup>	Greater Toronto Area <sup>6</sup>	Toronto Region Conservation Authority Rank <sup>6</sup>	CN Rail Line ROW	Mimico Creek M1, M2	Humber River						Black Creek		SNC Lavalin <sup>*</sup>	
										HR1	HR2	HR3	HR5	HR5 Incl.	HR6	HR8	BC1		BC2
<i>Cerastium fontanum</i>	Common Mouse-ear Chickweed	SE5			X	X	L+												s
<i>Chenopodium album var album</i>	White Goosefoot	SE5			X	X	L+	s											
<i>Cichorium intybus</i>	Chicory	SE5			X	X	L+										+		s
<i>Circaea lutetiana ssp canadensis</i>	Enchanter's Nightshade	S5			X	X	L5				+								s
<i>Cirsium arvense</i>	Canada Thistle	SE5			X	X	L+												s
<i>Cirsium sp</i>	Thistle Species							s											
<i>Cirsium vulgare</i>	Bull Thistle	SE5			X	X	L+												s
<i>Cornus sp</i>	Dogwood Species							s											
<i>Cornus stolonifera</i>	Red-osier Dogwood	S5			X	X	L5	s			+						+		
<i>Coronilla varia</i>	Crown-vetch	SE5			X	X	L+	s	+										
<i>Crataegus sp</i>	Hawthorn Species							s	s	s									
<i>Cynanchum nigrum</i>	Black Swallow-wort	SE?			X	X	L+	+	+	+	+	+							
<i>Cynanchum rossicum</i>	European Swallow-wort	SE5			X	X	L+							+		+	+		
<i>Daucus carota</i>	Queen Anne's Lace	SE5			X	X	L+	s	+										
<i>Digitaria sanguinalis</i>	Hairy Crabgrass	SE5			X	X	L+												s
<i>Dipsacus fullonum ssp sylvestris</i>	Common Teasel	SE5			X	X	L+		+										s
<i>Echinochloa crusgalli</i>	Barnyard Grass	SE5			X	X	L+												s
<i>Echium vulgare</i>	Common Viper's-bugloss	SE5			X	X	L+												s
<i>Elaeagnus angustifolia</i>	Russian Olive	SE3			X	X	L+		s										
<i>Elymus canadensis</i>	Nodding Wild-rye	S4S5			R <sup>6</sup>	R	L3												s
<i>Elymus repens</i>	Quack Grass	SE5			X	X	L+												s
<i>Epilobium ciliatum ssp ciliatum</i>	Hairy Willow-herb	S5			X	X	L5		s										
<i>Epilobium hirsutum</i>	Great-hairy Willow-herb	SE5			X	X	L4												s
<i>Equisetum arvense</i>	Field Horsetail	S5			X	X	L5												s
<i>Erigeron annuus</i>	White-top Fleabane	S5			X	X	L5	s											
<i>Euonymus alata</i>	Winged Spindle-tree	SE2			X	X	L+		+	+									
<i>Euonymus europaea</i>	European Spindle-tree	SE2			X	X	L+		s		+				+				
<i>Euonymus obovata</i>	Running Strawberry-bush	S5			R <sup>5</sup>	X	L3			s				+					
<i>Eupatorium maculatum ssp maculatum</i>	Spotted Joe-pye Weed	S5			X	X	L5				+								

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										HR1	HR2	HR3	HR5	HR5 Incl.	HR6	HR8	BC1	BC2		
<i>Forsythia viridissima</i>	Golden-bells	SE2			X	X	L+											+		
<i>Fragaria virginiana ssp virginiana</i>	Virginia Strawberry	SU			X	X	L5		+										s	
<i>Fraxinus americana</i>	White Ash	S5			X	X	L5	+		+			+	+	+				s	
<i>Fraxinus pennsylvanica</i>	Green Ash	S5			X	X	L5				+							+	s	
<i>Fraxinus sp</i>	Ash Species							s												
<i>Geum aleppicum</i>	Yellow Avens	S5			X	X	L5												s	
<i>Geum sp</i>	Avens Species										+							+		
<i>Glechoma hederacea</i>	Ground Ivy	SE5			X	X	L+												s	
<i>Grass sp</i>	Grass Species							+	+		+						+	+		
<i>Hackelia virginiana</i>	Virginia Stickseed	S5			X <sup>U</sup>	X <sup>2</sup>	L5				+	+								
<i>Heracleum lanatum</i>	Cow-parsnip	S5			X	R	L4											+		
<i>Hesperis matronalis</i>	Dame's Rocket	SE5			X	X	L+				+							+		
<i>Hydrophyllum virginianum</i>	Virginia Waterleaf	S5			X	X	L5											+		
<i>Hypericum perforatum</i>	St. John's-wort	SE5			X	X	L+												s	
<i>Impatiens capensis</i>	Spotted Jewel-weed	S5			X	X	L5		+									+	s	
<i>Impatiens sp</i>	Jewel-weed Species								s											
<i>Inula helenium</i>	Elecampane	SE5			X	X	L+		+										s	
<i>Juglans nigra</i>	Black Walnut	S4			X	X	L5	+		s	+	+	+				+			
<i>Juniperus virginiana</i>	Eastern Red Cedar	S5			R <sup>1</sup>	R	L5		+											
<i>Lactuca serriola</i>	Prickly Lettuce	SE5			X	X	L+			s										
<i>Leonurus cardiaca ssp cardiaca</i>	Common Motherwort	SE5			X	X	L+				+	+					+	+		
<i>Lilium lancifolium</i>	Tiger Lily	SE1			X	X	L+												s	
<i>Linaria vulgaris</i>	Butter-and-eggs	SE5			X	X	L+		+								+		s	
<i>Lonicera tatarica</i>	Tartarian Honeysuckle	SE5			X	X	L+	s	s	s	+							+		
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	SE5			X	X	L+	s												
<i>Lycopus americanus</i>	American Bugleweed	S5			X	X	L4				+									
<i>Lythrum salicaria</i>	Purple Loosestrife	SE5			X	X	L+		s		+									
<i>Maianthemum stellatum</i>	Starflower False Solomon's Seal	S5			X	X	L5											+		

Scientific Name	Common Name	Srank <sup>3</sup>	COSEWIC <sup>4</sup>	MNR <sup>5</sup>	City of Toronto <sup>6</sup>	Greater Toronto Area <sup>6</sup>	Toronto Region Conservation Authority Rank <sup>6</sup>	CN Rail Line ROW	Mimico Creek M1, M2	Humber River								Black Creek		SNC Lavalin <sup>*</sup>
										HR1	HR2	HR3	HR5	HR5 Incl.	HR6	HR8	BC1	BC2		
<i>Matricaria matricarioides</i>	Pineapple-weed	SE5			X	X	L+												s	
<i>Medicago lupulina</i>	Black Medic	SE5			X	X	L+												s	
<i>Medicago sativa ssp falcata</i>	Alfalfa	SE5				X	L+												s	
<i>Melilotus alba</i>	White Sweet Clover	SE5			X	X	L+										+		s	
<i>Melilotus officinalis</i>	Yellow Sweet Clover	SE5			X	X	L+												s	
<i>Morus alba</i>	White Mulberry	SE5			X	X	L+										+	+		
<i>Nepeta cataria</i>	Catnip	SE5			X	X	L+		+								+		s	
<i>Oenothera biennis</i>	Common Evening-primrose	S5			U	X	L5											+	s	
<i>Onopordum acanthium</i>	Scotch Thistle	SE4				X													s	
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam	S5			X	X	L5						+							
<i>Oxalis stricta</i>	Upright Yellow Wood Sorrel	S5			X	X	L+?											+		
<i>Panicum virgatum</i>	Switch Grass	S4			R <sup>2</sup>	R	L3	s												
<i>Parthenocissus inserta</i>	Thicket Creeper	S5			X	X	L5	+									+	+		
<i>Phalaris arundinacea</i>	Reed Canary Grass	S5			X	X	L+?		+										s	
<i>Phleum pratense</i>	Timothy	SE5			X	X	L+	s												
<i>Pinus sylvestris</i>	Scotch Pine	SE5			X	X	L+											+		
<i>Plantago major</i>	Nipple-seed Plantain	SE5			X	X	L+												x	
<i>Plantago sp</i>	Plantain Species																			
<i>Poa pratensis ssp pratensis</i>	Kentucky Bluegrass	S5			X	X	L+	s												
<i>Poa sp</i>	Bluegrass Species																		s	
<i>Polygonum amphibium</i>	Water Smartweed	S5			R <sup>5</sup>	X	L3		s											
<i>Polygonum aviculare</i>	Prostrate Knotweed	SE5			X	X	L+												s	
<i>Polygonum cuspidatum</i>	Japanese Knotweed	SE4			X	X	L+												+	
<i>Polygonum persicaria</i>	Lady's Thumb	SE5			X	X	L+												s	
<i>Polygonum scandens</i>	Climbing False-buckwheat	S4S5			R <sup>4</sup>	R	L3												s	
<i>Polygonum sp</i>	Smartweed Species																		+	
<i>Populus balsamifera ssp balsamifera</i>	Balsam Poplar	S5			X	X	L5	s	s									s		
<i>Populus deltoides ssp morilifera</i>	Eastern Cottonwood	S5			X	X	L5											+	+	
<i>Populus tremuloides</i>	Quaking Aspen	S5			X	X	L5	s											+	
<i>Potentilla recta</i>	Sulphur Cinquefoil	SE5			X	X	L+		+										s	

Scientific Name	Common Name	Srank <sup>3</sup>	COSEWIC <sup>4</sup>	MNR <sup>5</sup>	City of Toronto <sup>6</sup>	Greater Toronto Area <sup>8</sup>	Toronto Region Conservation Authority Rank <sup>6</sup>	CN Rail Line ROW	Mimico Creek M1, M2	Humber River						Black Creek		SNC Lavalin*	
										HR1	HR2	HR3	HR5	HR5 Incl.	HR6	HR8	BC1		BC2
<i>Prenanthes altissima</i>	Tall Rattlesnake-root	S5			X	X	L5						+						
<i>Prunus serotina</i>	Wild Black Cherry	S5			X	X	L5	+							+				
<i>Prunus virginiana ssp virginiana</i>	Choke Cherry	S5			X	X	L5		s	s	+		+		+	+			
<i>Quercus alba</i>	White Oak	S5			X	X	L2						+						
<i>Quercus macrocarpa</i>	Bur Oak	S5			X	X	L4						+			+			
<i>Quercus rubra</i>	Northern Red Oak	S5			X	X	L4		s				+						
<i>Rhamnus cathartica</i>	Buckthorn	SE5			X	X	L+	s	s			+	+			+	+	+	
<i>Rhus radicans ssp rydbergii</i>	Western Poison Ivy	S5			X	X	L5	+	+			+					s		
<i>Rhus typhina</i>	Staghorn Sumac	S5			X	X	L5	+	s	+						+	+		
<i>Robinia pseudo-acacia</i>	Black Locust	SE5			X	X	L+					+					s		
<i>Rosa carolina</i>	Carolina Rose	S4			R	R	L2		s	s									
<i>Rosa sp</i>	Rose Species																		s
<i>Rubus idaeus ssp melanolasius</i>	Wild Red Raspberry	S5			X	X	L5		s			+					+		
<i>Rumex crispus</i>	Curly Dock	SE5			X	X	L+	s									+		
<i>Salix alba</i>	White Willow	SE4			X	X	L+		s										+
<i>Salix amygdaloides</i>	Peach-leaved Willow	S5			X <sup>U</sup>	X	L4										+		
<i>Salix exigua</i>	Sandbar Willow	S5			X	X	L5		s	+									
<i>Salix fragilis</i>	Crack Willow	SE5					L+					+					s	+	
<i>Salix petiolaris</i>	Meadow Willow	S5			R <sup>2</sup>	X	L3		s										
<i>Saponaria officinalis</i>	Bouncing-bet	SE5			X	X	L+					+					s		
<i>Scirpus validus</i>	Soft-stemmed Bulrush	S5			X	X	L4												s
<i>Setaria pumila</i>	Yellow Foxtail	SE5			X	X													s
<i>Setaria viridis</i>	Green Bristle Grass	SE5			X	X	L+												s
<i>Solidago altissima var altissima</i>	Tall Goldenrod	S5			X	X	L5		+								+		
<i>Solidago canadensis</i>	Canada Goldenrod	S5			X	X	L5	+	+								+	+	
<i>Solidago flexicaulis</i>	Broad-leaved Goldenrod	S5			X	X	L5			s									
<i>Solidago gigantea</i>	Smooth Goldenrod	S5			X	X	L5					+						+	s
<i>Solidago rugosa ssp rugosa</i>	Rough Goldenrod	S5			R <sup>2</sup>	X	L5												s
<i>Solidago sp</i>	Goldenrod Species								s										
<i>Sonchus arvensis ssp arvensis</i>	Field Sowthistle	SE5			X	X	L+											+	s



#### ***Legend***

s - Recorded by SNC Lavalin in 2004

+ - Recorded by Ecoplans Limited in 2008

\* - Recorded by SNC Lavalin, no location information available

#### **<sup>3</sup>S-Ranks (provincial)**

S1 Critically Imperiled—Critically imperiled in the nation or state/province 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 from the state/province.

S2 Imperiled—Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.

S3 Vulnerable—Vulnerable in the nation or state/province 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 the nation or state/province.

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).

SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.

SE Exotic; not believed to be a native component of Ontario's flora.

#### **<sup>4</sup>COSEWIC (Committee on the Status of Endangered Wildlife in Canada)**

(federal status from COSEWIC April 2008)

EXT Extinct - A species that no longer exists.

EXP Extirpated - A species no longer existing in the wild in Canada, but occurring elsewhere.

END Endangered - A species facing imminent extirpation or extinction.

THR Threatened - A species likely to become endangered if limiting factors are not reversed.

SC Special Concern (formerly vulnerable) - A species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats.

NAR Not At Risk - A species that has been evaluated and found to be not at risk of extinction given the current circumstances.

DD Data Deficient (formerly Indeterminate) - Available information is insufficient to resolve a species' eligibility for assessment or to permit an assessment of the species' risk of extinction.

\* - Species on Schedule 1 of Species At Risk Act (SARA)

#### **<sup>5</sup>OMNR (Ontario Ministry of Natural Resources)**

(provincial status from MNR June 2008)

*The provincial review process is implemented by the MNR's Committee on the Status of Species at Risk in Ontario (COSSARO).*

EXT Extinct—A species that no longer exists anywhere.

EXP Extirpated—A species that no longer exists in the wild in Ontario but still occurs elsewhere.

END-R Endangered (Regulated)—A species facing imminent extinction or extirpation in Ontario which has been regulated under Ontario's Endangered Species Act (ESA).

END Endangered (Not Regulated) —A species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's ESA.

THR Threatened—A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed.

SC Special Concern (formerly Vulnerable) —A species with characteristics that make it sensitive to human activities or natural events.

NAR Not at Risk—A species that has been evaluated and found to be not at risk.

DD Data Deficient (formerly Indeterminate) —A species for which there is insufficient information for a provincial status recommendation.

#### **<sup>6</sup>Regional Status –**

from The Vascular Plant Flora of the Greater Toronto Area (Varga et. al. 1999).

"Plant rarity is based on the number of locations for a native plant species" and also takes into account native species restricted to specialized rare habitats. For the Greater Toronto Area column, "A species is considered rare in the Greater Toronto Area if it is rare or uncommon in a least four of... Halton, Peel, Toronto, York, and Durham".

Codes are defined as follows:

X - Present

U - uncommon native species

R - rare native species

R# - number of stations for a rare native species

E - extirpated native species

+ - introduced species

X+ - introduced in municipality

SR - sight record

LR - literature record

*Varga, S., et al. 1999. The Vascular Plant Flora of the Greater Toronto Area (Rough Draft). Ontario Ministry of Natural Resources, Aurora, ON. 82 pp.*

For flora the ranks are defined as follows (TRCA 2007). L1 - of concern regionally; almost certainly rare in TRCA jurisdiction; generally occur in high-quality natural areas, in natural matrix; unable to withstand disturbance. L2 - of concern regionally; probably rare in TRCA jurisdiction; generally occur in high-quality natural areas, in natural matrix; unable to withstand disturbance. L3 - of concern regionally; generally secure in natural matrix; able to withstand minor disturbance. L4 - of concern in urban matrix; generally secure in rural matrix; able to withstand some disturbance. L5 - not of concern; generally secure throughout jurisdiction, including urban matrix; able to withstand high levels of disturbance. LX - Extirpated from the TRCA region with remote chance of rediscovery. Presumably highly sensitive. Not scored. LH - Hybrid between two native species. Usually not scored unless highly stable and behaves like a species. L+ - Exotic. Not native to TRCA jurisdiction. Includes hybrids between a native species and an exotic. Not scored. L+? - Origin uncertain or disputed, i.e. may or may not be native. Not scored.Toronto and Region Conservation Authority. 2004. Table entitled TRCA Flora Scores & Ranks (11 April 2003). Unpublished document provided by TRCA and Toronto and Region Conservation. 2007. Toronto and Region Natural Heritage System Strategy – Final Draft January 2007.