

APPENDIX 4
ECOLOGICAL LAND CLASSIFICATION
DATA SHEET

ELC Community Description & Classification

Polygon: A

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: June 3, July 12, 2016

Polygon Description A		Community Series: Forest FO		Ecosite: Deciduous Forest FOD		Vegetation Type: Dry – Fresh Manitoba Maple Deciduous Forest Type							
System Terrestrial Wetland Aquatic		Topographic Feature Lacustrine Riverine Bottomland Terrace Valley slope Tableland Rolling upland Cliff Talus Crevice Cave Alvar Rockland Beach Bar Sand dune Bluff						Dominant Plant Form Plankton Submerged Floating-lvd. Graminoid Forb Lichen Bryophyte Deciduous Coniferous Mixed					
Cover Open Shrub Treed		History Natural Cultural		Community Class Beach-Bar Sand Dune Bluff Cliff Talus Alvar Rock Barren Crevice-Cave Sand Barren Tallgrass Prairie Savannah Woodland Forest Thicket Cultural Swamp Fen Bog Marsh Open Water Shallow Water									
Stand Description:											Soil Analysis:		
Community Age Pioneer Young Mid-Aged Mature Old Growth				Basal Area (m²/ha)		Soil Drainage Very Rapid Rapid Well Moderately Well Imperfect Poor Very Poor							
Standing Snags Rare Occasional Abundant Dominant						Soil Moisture Regime Dry Fresh Moist Wet							
Deadfall Logs Rare Occasional Abundant Dominant						Effective Soil Texture: Clay Loam Mineral							
Health Low Medium High		Sensitivity Low Medium High		Botanical Quality Low Medium High		Depth to Mottles / Gley Sample: M - cm / G - cm							
Slope none gentle moderate steep (simple) or complex)						Depth to Groundwater metres at surface less than 1m more than 1 m			Depth to Bedrock metres at surface less than 1m more than 1 m				

Vegetation Layer	Height ¹	Cover ²	Dominant Species per Vegetation Layer
1 Canopy	2	4	Acer negundo > Salix euxina = Acer platanoides = Juglans nigra
2 Subcanopy	3	2	Acer negundo = Acer platanoides < Acer saccharum
3 Understorey	4	3	Rhamnus cathartica > Lonicera tatarica > Parthenocissus quinquefolia = Vitis riparia
4 Ground Layer	5-7	3	Toxicodendron rydbergii > Alliaria petiolata > Solidago flexicaulis = Geum canadense

¹ Height Code: 1=>20m, 2=10m-20m, 3=2m-10m, 4=1m-2m, 5=0.5m-1m, 6=0.2m-0.5m, 7= < 0.2m ² Cover Codes: 0 = none, 1 = 0%- 10%, 2 = 10%- 25%, 3 = 25%-60%, 4= >60%

Size Class Analysis ³	A	A	O-A	R
³ Abundance Code: RS=Rare, O=Occasional, A=Abundant, D=Dominant	< 10 cm DBH	10 to 24 cm DBH	25 to 50 cm DBH	> 50 cm DBH

Evidence of Disturbance: Trash pile, brush pile, invasive species.
Wildlife / Habitat Observations: Turkey Vulture
Comments:

Community Name				Code	% Coverage
Inclusion		Complex			
Inclusion		Complex			

ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: A

Date: June 3, July 12, 2016

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ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: A

Date: June 3, July 12, 2016

Representative Photographs of Vegetation Community:



ELC Community Description & Classification

Polygon: C

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: May 27, July 5, 2016

Polygon Description C		Community Series: Forest FO		Ecosite: Deciduous Forest FOD		Vegetation Type: Dry – Fresh Manitoba Maple Deciduous Forest Type						
System Terrestrial Wetland Aquatic		Topographic Feature Lacustrine Riverine Bottomland Terrace Valley slope Tableland Rolling upland Cliff Talus Crevice Cave Alvar Rockland Beach Bar Sand dune Bluff						Dominant Plant Form Plankton Submerged Floating-lvd. Graminoid Forb Lichen Bryophyte Deciduous Coniferous Mixed				
Cover Open Shrub Treed		History Natural Cultural		Community Class Beach-Bar Sand Dune Bluff Barren Tallgrass Prairie Savannah Woodland Forest Thicket Cultural Swamp Fen Bog Marsh Open Water Shallow Water								
Stand Description:										Soil Analysis:		
Community Age Pioneer Young Mid-Aged Mature Old Growth				Basal Area (m²/ha)		Soil Drainage Very Rapid Rapid Well Moderately Well Imperfect Poor Very Poor						
Standing Snags Rare Occasional Abundant Dominant						Soil Moisture Regime Dry Fresh Moist Wet						
Deadfall Logs Rare Occasional Abundant Dominant						Effective Soil Texture: Clay Loam Mineral						
Health Low Medium High		Sensitivity Low Medium High		Botanical Quality Low Medium High		Depth to Mottles / Gley Sample: M - cm / G - cm						
Slope none gentle moderate steep (simple) or complex)						Depth to Groundwater metres at surface less than 1m more than 1 m			Depth to Bedrock metres at surface less than 1m more than 1 m			

Vegetation Layer	Height ¹	Cover ²	Dominant Species per Vegetation Layer
1 Canopy	2	4	Acer negundo > Juglans nigra > Salix europa = Acer platanoides = Acer saccharum
2 Subcanopy	3	2	Acer negundo > Acer platanoides = Acer saccharum
3 Understorey	4	3	Rhamnus cathartica > Lonicera tatarica > Parthenocissus quinquefolia > Rubus occidentalis
4 Ground Layer	5-7	3	Alliaria petiolata > Impatiens capensis = Cardamine diphylla

¹ Height Code: 1=>20m, 2=10m-20m, 3=2m-10m, 4=1m-2m, 5=0.5m-1m, 6=0.2m-0.5m, 7= < 0.2m ² Cover Codes: 0 = none, 1 = 0%- 10%, 2 = 10%- 25%, 3 = 25%-60%, 4= >60%

Size Class Analysis ³	A	A	O	R
³ Abundance Code: RS=Rare, O=Occasional, A=Abundant, D=Dominant	< 10 cm DBH	10 to 24 cm DBH	25 to 50 cm DBH	> 50 cm DBH

Evidence of Disturbance: Trash pile, brush pile, invasive species.
Wildlife / Habitat Observations: CAGO, COGR, AMRE, GRSQ
Comments:

Community Name				Code	% Coverage
Inclusion		Complex			
Inclusion		Complex			

ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: C

Date: May 27, July 5, 2016

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ELC Community Description & Classification

Polygon: D

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: May 27, July 5, 2016

Polygon Description D		Community Series: Forest FO		Ecosite: Deciduous Forest FOD		Vegetation Type: FODM7-4 Fresh - Moist Black Walnut Lowland Deciduous Forest Type						
System Terrestrial Wetland Aquatic		Topographic Feature Lacustrine Riverine Bottomland Terrace Valley slope Tableland Rolling upland Cliff Talus Crevice Cave Alvar Rockland Beach Bar Sand dune Bluff						Dominant Plant Form Plankton Submerged Floating-lvd. Graminoid Forb Lichen Bryophyte Deciduous Coniferous Mixed				
Cover Open Shrub Treed		History Natural Cultural		Community Class Beach-Bar Sand Dune Bluff Barren Tallgrass Prairie Savannah Woodland Forest Thicket Cultural Swamp Fen Bog Marsh Open Water Shallow Water								
Stand Description:										Soil Analysis:		
Community Age Pioneer Young Mid-Aged Mature Old Growth				Basal Area (m²/ha)		Soil Drainage Very Rapid Rapid Well Moderately Well Imperfect Poor Very Poor						
Standing Snags Rare Occasional Abundant Dominant						Soil Moisture Regime Dry Fresh Moist Wet						
Deadfall Logs Rare Occasional Abundant Dominant						Effective Soil Texture: Clay Loam Mineral						
Health Low Medium High		Sensitivity Low Medium High		Botanical Quality Low Medium High		Depth to Mottles / Gley Sample: M - cm / G - cm						
Slope none gentle moderate steep (simple or complex)						Depth to Groundwater metres at surface less than 1m more than 1m			Depth to Bedrock metres at surface less than 1m more than 1m			

Vegetation Layer	Height ¹	Cover ²	Dominant Species per Vegetation Layer
1 Canopy	2	4	Juglans nigra > Acer negundo > Acer platanoides > Ulmus americana
2 Subcanopy	3	2	Acer negundo > Acer platanoides > Rhamnus cathartica
3 Understorey	4	3	Rubus idaeus ssp. strigosus > Rhamnus cathartica > Lonicera tatarica
4 Ground Layer	5-7	3	Alliaria petiolata > Cardamine diphylla > Circaea Canadensis = Lysimachia ciliata

¹ Height Code: 1=>20m, 2=10m-20m, 3=2m-10m, 4=1m-2m, 5=0.5m-1m, 6=0.2m-0.5m, 7= < 0.2m ² Cover Codes: 0 = none, 1 = 0%- 10%, 2 = 10%- 25%, 3 = 25%-60%, 4= >60%

Size Class Analysis ³	O	O	R	R
³ Abundance Code: RS=Rare, O=Occasional, A=Abundant, D=Dominant	< 10 cm DBH	10 to 24 cm DBH	25 to 50 cm DBH	> 50 cm DBH

Evidence of Disturbance: Trash pile, brush pile, invasive species.
Wildlife / Habitat Observations: YEWA, REVI, NOCA, SOSP, BAOR, RWBB, EUST, TUVU, Mallard and fresh ducks, red squirrel.
Comments:

Community Name				Code	% Coverage
Inclusion		Complex			
Inclusion		Complex			

ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: D

Date: May 27, July 5, 2016

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ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: D

Date: May 27, July 5, 2016



ELC Community Description & Classification

Polygon: E

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: May 27, July 5, 2016

Polygon Description E		Community Series: Swamp SW		Ecosite: Deciduous Swamp SWD		Vegetation Type: SWDM4-1 Willow Mineral Deciduous Swamp Type	
System Terrestrial ☐ Wetland Aquatic		Topographic Feature Lacustrine ☐ Riverine Bottomland Terrace Valley slope Tableland Rolling upland Cliff Talus Crevice Cave Alvar Rockland Beach Bar Sand dune Bluff				Dominant Plant Form Plankton Submerged Floating-lvd. Graminoid Forb Lichen Bryophyte ☐ Deciduous Coniferous Mixed	
Cover Open Shrub ☐ Treed		History ☐ Natural Cultural		Community Class Beach-Bar Sand Dune Bluff Barren Tallgrass Prairie Savannah Woodland Forest Thicket Cultural ☐ Swamp Fen Bog Marsh Open Water Shallow Water			
Stand Description:						Soil Analysis:	
Community Age Pioneer Young ☐ Mid-Aged Mature Old Growth				Basal Area (m²/ha)		Soil Drainage Very Rapid Rapid Well Moderately Well ☐ Imperfect Poor Very Poor	
Standing Snags Rare ☐ Occasional Abundant Dominant				Soil Moisture Regime Dry Fresh Moist ☐ Wet			
Deadfall Logs Rare ☐ Occasional Abundant Dominant				Effective Soil Texture: Clay Loam Mineral			
Health Low Medium ☐ High		Sensitivity Low Medium ☐ High		Botanical Quality Low ☐ Medium ☐ High		Depth to Mottles / Gley Sample: M - cm / G - cm	
Slope none ☐ gentle moderate steep (simple or complex)				Depth to Groundwater metres at surface ☐ less than 1m more than 1 m		Depth to Bedrock metres at surface less than 1m ☐ more than 1 m	

Vegetation Layer	Height ¹	Cover ²	Dominant Species per Vegetation Layer
1 Canopy	2	2	Salix euxina = Acer negundo > Juglans nigra > Fraxinus pennsylvanica
2 Subcanopy	3	2	Rhamnus cathartica > Frangula alnus > Acer negundo
3 Understorey	4	4	Salix eriocephala > Phalaris arundinacea > Glyceria grandis > Rubus idaeus ssp. strigosus
4 Ground Layer	5-7	4	Caltha palustris = Onoclea sensibilis = Lysimachia ciliata

¹ Height Code: 1=>20m, 2=10m-20m, 3=2m-10m, 4=1m-2m, 5=0.5m-1m, 6=0.2m-0.5m, 7= < 0.2m ² Cover Codes: 0 = none, 1 = 0%- 10%, 2 = 10%- 25%, 3 = 25%-60%, 4= >60%

Size Class Analysis ³	A	A	R	R
³ Abundance Code: RS=Rare, O=Occasional, A=Abundant, D=Dominant	< 10 cm DBH	10 to 24 cm DBH	25 to 50 cm DBH	> 50 cm DBH

Evidence of Disturbance: Trails, piled wood, small amounts of trash, invasive species.
Wildlife / Habitat Observations: GRCA, CEWA, GRFR, BEKI, WAUI, CAGO, BCJA, DOWO
Comments:

Community Name				Code	% Coverage
Inclusion		Complex			
Inclusion		Complex			

ELC Community Description & Classification

Polygon: E

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: May 27, July 5, 2016

Plant Species List	Layer / Abundance Abundance Code: R=Rare, O=Occasional, A=Abundant, D=Dominant			
	1	2	3	4
Trees				
Salix euxina	A-O		R	
Acer negundo	A-O	O	O	
Tilia americana		O		
Larix decidua			R	
Juglans cinerea	O		R	
Fraxinus pennsylvanica	O	O		
Thuja occidentalis		R		
Juglans nigra	A-O			
Fraxinus americana		R		
Acer saccharum	R			
Acer platanoides	O	O		
Prunus serotina	R			
Ulmus americana	R	R		
Shrubs and Woody Vines				
Salix purpurea			A	
Cornus stolonifera			A	
Rhamnus cathartica		O	A	
Prunus virginiana			O	
Lonicera tatarica			A	
Cornus alternifolia			O	
Rubus idaeus ssp. strigosus			A-O	
Parthenocissus quinquefolia			O	
Viburnum opulus ssp. opulus			R	
Vitis riparia			O	O
Frangula alnus		R	O	
Berberis thunbergii				O
Alnus incana			R	
Salix eriocephala			A-O	
Prunus serotina			R	
Alnus glutinosa		R		
Rubus pubescens				R
Ribes americanum			O	
Ribes triste			R	

Plant Species List	Layer / Abundance Abundance Code: R=Rare, O=Occasional, A=Abundant, D=Dominant			
	1	2	3	4
Ferns & Fern Allies, Herbs, Graminoids				
Caltha palustris				A
Thalictrum dioicum				A
Phalaris arundinacea			A	
Onoclea sensibilis				A-O
Fragaria vesca				O
Ranunculus acris				O
Matteuccia struthiopteris			A-O	
Anemone canadensis				O
Echinochloa crus-galli			O	
Arisaema triphyllum				R
Carex gracillima				O-R
Rumex crispus				O
Tussilago farfara				A-O
Solanum dulcamara			O	
Eutrochium maculatum var. maculatum			O	
Carex retrorsa				R
Sium suave				R
Angelica atropurpurea			R	
Alisma triviale				R
Urtica dioica ssp. gracilis				O
Sagittaria latifolia				O-R
Glyceria grandis			A-O	
Carex hystericina				O
Carex c.f. bebbii				R
Galium palustre				O-R
Cardamine pensylvanica				R
Symphyotrichum puniceum			O	
Leonurus cardiaca			O	
Hypericum perforatum			O	
Equisetum fluviatile				R
Ranunculus sceleratus var. multifidus				R
Lysimachia ciliata				A-O
Scirpus atrovirens				O

ELC Community Description & Classification

Polygon: E

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: May 27, July 5, 2016



ELC Community Description & Classification

Polygon: F

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Date: June 3, July 12, 2016

Polygon Description F		Community Series:		Ecosite:		Vegetation Type: Parkland (CGL_2)						
System Terrestrial Wetland Aquatic		Topographic Feature Lacustrine Riverine Bottomland Terrace Valley slope Tableland Rolling upland Cliff Talus Crevice Cave Alvar Rockland Beach Bar Sand dune Bluff						Dominant Plant Form Plankton Submerged Floating-lvd. Graminoid Forb Lichen Bryophyte Deciduous Coniferous Mixed				
Cover Open Shrub Treed		History Natural Cultural		Community Class Beach-Bar Sand Dune Bluff Cliff Talus Alvar Rock Barren Crevice-Cave Sand Barren Tallgrass Prairie Savannah Woodland Forest Thicket Cultural Swamp Fen Bog Marsh Open Water Shallow Water								
Stand Description:										Soil Analysis:		
Community Age Pioneer Young Mid-Aged Mature Old Growth				Basal Area (m²/ha)		Soil Drainage Very Rapid Rapid Well Moderately Well Imperfect Poor Very Poor						
Standing Snags Rare Occasional Abundant Dominant						Soil Moisture Regime Dry Fresh Moist Wet						
Deadfall Logs Rare Occasional Abundant Dominant						Effective Soil Texture: Clay Loam Mineral						
Health Low Medium High		Sensitivity Low Medium High		Botanical Quality Low Medium High		Depth to Mottles / Gley Sample: M - cm / G - cm						
Slope none gentle moderate steep (simple or complex)						Depth to Groundwater at surface less than 1m more than 1 m metres			Depth to Bedrock at surface less than 1m more than 1 m metres			

Vegetation Layer	Height ¹	Cover ²	Dominant Species per Vegetation Layer
1 Canopy	2	2	
2 Subcanopy	3	0	
3 Understorey	4	0	
4 Ground Layer	5-7	3	

¹ Height Code: 1=>20m, 2=10m-20m, 3=2m-10m, 4=1m-2m, 5=0.5m-1m, 6=0.2m-0.5m, 7= < 0.2m ² Cover Codes: 0 = none, 1 = 0%- 10%, 2 = 10%- 25%, 3 = 25%-60%, 4= >60%

Size Class Analysis ³	O	R	O	R
³ Abundance Code: RS=Rare, O=Occasional, A=Abundant, D=Dominant	< 10 cm DBH	10 to 24 cm DBH	25 to 50 cm DBH	> 50 cm DBH

Evidence of Disturbance: Trash pile, brush pile, invasive species.
Wildlife / Habitat Observations: Turkey Vulture
Comments:

				Community Name	Code	% Coverage
Inclusion		Complex				
Inclusion		Complex				
				Layer / Abundance		Layer / Abundance

ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: F

Date: June 3, July 12, 2016

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Representative Photographs of Vegetation Community:

ELC Community Description & Classification

Project No: AA15-123A

Project Name: Speedvale Bridge Multi-use Trail

Surveyor(s): RH, CAR

Polygon: F

Date: June 3, July 12, 2016

