APPENDIX E

WETLAND AND WATERCOURSE PHOTO LOG



Photos 1-2: Representative photos of WL1.



Photos 3-4: Representative photos of WL2.



Photos 5-6: Representative photos of WL3.



Photos 7-8: Representative photos of WL4.



Photos 9-10: Representative photos of WL5.



Photos 11-12: Representative photos of WL6.



Photos 13-14: Representative photos of WL7.



Photos 15-16: Representative photos of WL8.



Photos 17-18: Representative photos of WL9.



Photo 19: Example of floodplain wetland observed in WL1.



Photo 20: Downstream section of Eel Weir Brook, outside of the Project Site.



Photo 21: Wooden bridge crossing Eel Weir Brook (WC1), located approximately 65 m downstream from WC1-T1.



Photo 22: Watercourse 1 (WC1-T1), taken facing upstream.



Photo 23: Watercourse 1 (WC1-T2), taken facing downstream.



Photo 24: Watercourse 1 (WC1-T3), showing undercut banks.



Photo 25: Riparian area in the northern reach of WC2.



Photo 26: Culvert located at Watercourse 2 (WC2-T1), facing upstream.



Photo 27: Representative photo of the substrate at Watercourse 2 (WC2-T3).



Photo 28: Representative photo of Watercourse 2 (WC2-T3), facing upstream.



Photo 29: Example of extensive woody debris in parts of Watercourse 2.



Photo 30: Watercourse 3 (WC3-T1), facing downstream.



Photo 31: Watercourse 3 (WC3-T2), facing upstream.



Photo 32: Representative photo of banks and riparian vegetation at WC3-T3.



Photo 33: Example of substrate along Watercourse 3, observed at WC3-T4.



Photo 34: WC4 -T1, facing downstream.



Photo 35: Example of substrate observed at WC4-T1.



Photo 36: Floodplain vegetation observed at WC4-T3.



Photo 37: Left bank and substrate observed at WC4-T4.

APPENDIX F

WETLAND PLOT DATA

Plot ID: WL1

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **8:25 AM**
Latitude: **44.850612723° N**
Longitude: **65.143716486° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?

Soils: **No**
Vegetation: **No**
Hydrology: **No**

Are any of the following Naturally Problematic?

Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**

Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	20%
Yellow Birch (*Betula alleghaniensis*) – FAC	5%
Balsam Fir (*Abies balsamea*) – FAC	5%
Black Spruce (*Picea mariana*) – FACW	5%
Shrub Stratum	
Speckled Alder (*Alnus incana*) – FACW	15%
Amelanchier spp.	5%

Species	% Cover
American Fly-Honeysuckle (*Lonicera canadensis*) – FAC	2%
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	20%
New York Fern (*Thelypteris noveboracensis*) – FAC	20%
Nodding Sedge (*Carex gynandra*) – FACW	10%
Sensitive Fern (*Onoclea sensibilis*) – FACW	5%
Royal Fern (*Osmunda regalis*) – OBL	5%
Parasol White-top (*Doellingeria umbellata*) – FAC	3%
Whorled Aster (*Oclemena acuminata*) – FACU	2%
Fowl Manna-Grass (*Glyceria striata*) – FACW	2%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-10	Sapric/sandy	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **Yes**

Water Table: **Yes**

Saturation: **Yes**

Primary Indicators: **(A1) Surface Water, (A2) High Water Table, (A3) Saturation, (B1) Water Marks, (B9) Water-stained Leaves, (B13) Aquatic Fauna**

Secondary Indicators: **(B10) Drainage Patterns**

7. Notes

Drought conditions.

Plot ID: WL2

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **8:58 AM**
Latitude: **44.847790042° N**
Longitude: **65.143073754° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **Yes**
Vegetation: **No**
Hydrology: **Yes**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**
Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	15%
Shrub Stratum	
Black Holly (*Ilex verticillata*) – FACW+	15%
Red Maple (*Acer rubrum*) – FAC	10%
Narrow-leaved Meadowsweet (*Spiraea alba*) – FAC	5%
Gray Birch (*Betula populifolia*) – FAC	1%
Paper Birch (*Betula papyrifera*) – FACU	1%

Species	% Cover
Herbaceous Stratum	
Cottongrass Bulrush (*Scirpus cyperinus*) – FACW	15%
Bluejoint Reedgrass (*Calamagrostis canadensis*) – FACW	15%
Black-girdle Bulrush (*Scirpus atrocinctus*) – FACW	5%
Canada Manna-Grass (*Glyceria canadensis*) – OBL	5%
Crested Shield-fern (*Dryopteris cristata*) – FACW	5%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-15	Fibric	Histosol					
H2	12-105+	Sapric	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **No**

Surface Water: **No**

Water Table: **Yes**

Saturation: **Yes**

Primary Indicators: **(A2) High Water Table, (A3) Saturation, (B1) Water Marks, (B7) Inundation Visible on Aerial Imagery, (B8) Sparsely Vegetated Concave Surface, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns, (B16) Moss Trim Lines, (D1) Stunted or Stressed Plants**

7. Notes

Drought conditions. Roads and anthropogenic ridges. Likely beaver activity.

Plot ID: WL3

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **9:41 AM**
Latitude: **44.838734623° N**
Longitude: **65.135166153° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**
Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	25%
Yellow Birch (*Betula alleghaniensis*) – FAC	10%
Balsam Fir (*Abies balsamea*) – FAC	5%
Black Spruce (*Picea mariana*) – FACW	5%
Shrub Stratum	
Speckled Alder (*Alnus incana*) – FACW	10%
Balsam Fir (*Abies balsamea*) – FAC	5%

Species	% Cover
Black Spruce (*Picea mariana*) – FACW	5%
Yellow Birch (*Betula alleghaniensis*) – FAC	5%
Striped Maple (*Acer pensylvanicum*) – FACU	1%
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	30%
New York Fern (*Thelypteris noveboracensis*) – FAC	10%
Goldthread (*Coptis trifolia*) – FAC	5%
Wild Lilt-of-the-Valley (*Maianthemum canadense*) – FAC	5%
Wild Sarsaparilla (*Aralia nudicaulis*) – FAC	3%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-15	Fibric	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **No**

Saturation: **Yes**

Primary Indicators: **(A3) Saturation, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns**

7. Notes

Drought conditions.

Plot ID: WL4

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **10:03 AM**
Latitude: **44.837454561° N**
Longitude: **65.134977238° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **Yes**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**
Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	5%
Salix spp.	5%
Trembling Aspen (*Populus tremuloides*) – FAC	2%
Balsam Fir (*Abies balsamea*) – FAC	2%
Yellow Birch (*Betula alleghaniensis*) – FAC	2%
Heart-leaved Paper Birch (*Betula papyrifera var. cordifolia*) – FACU	1%
Shrub Stratum	

Species	% Cover
Yellow Birch (*Betula alleghaniensis*) – FAC	15%
Black Holly (*Ilex verticillata*) – FACW+	15%
Balsam Fir (*Abies balsamea*) – FAC	10%
Red Maple (*Acer rubrum*) – FAC	5%
Northern Wild Raisin (*Viburnum nudum var. cassinoides*) – FAC	5%
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	30%
Dwarf Red Raspberry (*Rubus pubescens*) – FAC	15%
Three-seeded Sedge (*Carex trisperma*) – OBL	10%
Broad-leaved Cattail (*Typha latifolia*) – OBL	10%
Blue-joint Reedgrass (*Calamagrostis canadensis*) – FACW	5%
Rough-leaved Goldenrod (*Solidago rugosa*) – FAC	2%
Wild Sarsaparilla (*Aralia nudicaulis*) – FAC	2%
Swamp Aster (*Symphotrichum puniceum var. puniceum*) – FACW	2%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-35	Hemic	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **No**

Saturation: **Yes**

Primary Indicators: **(A3) Saturation, (B8) Sparsely Vegetated Concave Surface, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns**

7. Notes

Drought conditions. Historically cut over ~15 years.

Plot ID: WL5

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **10:36 AM**
Latitude: **44.836348129° N**
Longitude: **65.135229125° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **Yes**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**

Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	10%
Paper Birch (*Betula papyrifera*) – FACU	5%
Balsam Fir (*Abies balsamea*) – FAC	5%
White Ash (*Fraxinus americana*) – FAC	5%
Shrub Stratum	
Speckled Alder (*Alnus incana*) – FACW	10%
Red Maple (*Acer rubrum*) – FAC	5%

Species	% Cover
White Ash (*Fraxinus americana*) – FAC	5%
Black Spruce (*Picea mariana*) – FACW	5%
Paper Birch (*Betula papyrifera*) – FACU	5%
Amelanchier spp.	2%
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	25%
Cottongrass Bulrush (*Scirpus cyperinus*) – FACW	15%
Sensitive Fern (*Onoclea sensibilis*) – FACW	15%
Dwarf Red Raspberry (*Rubus pubescens*) – FAC	10%
Spinulose Shield Fern (*Dryopteris cathusiana*) – FAC	5%
Twinflower (*Linnaea borealis*) – FAC	2%
Virginia Strawberry (*Fragaria virginiana*) – FAC	2%
Flat-Top Fragrant Goldenrod (*Euthamia graminifolia*) – FAC	2%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-30	Hemic	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **No**

Saturation: **Yes**

Primary Indicators: **(A3) Saturation, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns**

7. Notes

Drought conditions.

Plot ID: WL6

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **11:21 AM**
Latitude: **44.833584171° N**
Longitude: **65.134344867° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **Yes**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**

Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Balsam Fir (*Abies balsamea*) – FAC	5%
Black Spruce (*Picea mariana*) – FACW	2%
Shrub Stratum	
Speckled Alder (*Alnus incana*) – FACW	40%
Red Maple (*Acer rubrum*) – FAC	15%
Black Spruce (*Picea mariana*) – FACW	5%
Balsam Fir (*Abies balsamea*) – FAC	5%

Species	% Cover
Paper Birch (*Betula papyrifera*) – FACU	2%
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	45%
Fowl Manna-Grass (*Glyceria striata*) – FACW	10%
Sensitive Fern (*Onoclea sensibilis*) – FACW	5%
Rough Sedge (*Carex scabrata*) – OBL	2%
Red Raspberry (*Rubus idaeus*) – FAC	2%
Field Horsetail (*Equisetum arvense*) – FAC	1%
Dwarf Red Raspberry (*Rubus pubescens*) – FAC	1%
Virginia Strawberry (*Fragaria virginiana*) – FAC	1%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-30	Hemic	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **Yes**

Saturation: **Yes**

Primary Indicators: **(A2) High Water Table, (A3) Saturation, (B8) Sparsely Vegetated Concave Surface, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns**

7. Notes

Drought conditions. Logging in area.

Plot ID: WL7

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **September 26, 2025**
Time: **11:50 AM**
Latitude: **44.830386088° N**
Longitude: **65.131513011° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**

Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	10%
Yellow Birch (*Betula alleghaniensis*) – FAC	5%
Shrub Stratum	
Speckled Alder (*Alnus incana*) – FACW	40%
Yellow Birch (*Betula alleghaniensis*) – FAC	10%
Balsam Fir (*Abies balsamea*) – FAC	5%
White Ash (*Fraxinus americana*) – FAC	5%

Species	% Cover
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	35%
Nodding Sedge (*Carex gynandra*) – FACW	10%
Rough-leaved Goldenrod (*Solidago rugosa*) – FAC	5%
Sensitive Fern (*Onoclea sensibilis*) – FACW	5%
New York Fern (*Thelypteris noveboracensis*) – FAC	5%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-10	Fibric	Histosol					
H2	10-15	Sapric	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **Yes**

Saturation: **Yes**

Primary Indicators: **(A2) High Water Table, (A3) Saturation, (B9) Water-stained Leaves, (B13) Aquatic Fauna**

Secondary Indicators: **(B10) Drainage Patterns**

7. Notes

Drought conditions.

Plot ID: WL8

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **October 2, 2025**
Time: **12:30 PM**
Latitude: **44.840043152° N**
Longitude: **65.136528131° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**

Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Red Maple (*Acer rubrum*) – FAC	10%
Balsam Fir (*Abies balsamea*) – FAC	5%
Black Spruce (*Picea mariana*) – FACW	5%
Shrub Stratum	
Black Holly (*Ilex verticillata*) – FACW+	25%
Speckled Alder (*Alnus incana*) – FACW	15%
Red Maple (*Acer rubrum*) – FAC	5%

Species	% Cover
Herbaceous Stratum	
Fowl Manna-Grass (*Glyceria striata*) – FACW	15%
Goldthread (*Coptis trifolia*) – FAC	5%
Three-seeded Sedge (*Carex trisperma*) – OBL	3%
Marsh Bedstraw (*Galium palustre*) – FACW+	2%
Northern Bugleweed (*Lycopus uniflorus*) – FACW+	2%
Spinulose Shield Fern (*Dryopteris cathusiana*) – FAC	1%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-20	Fibric	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **No**

Saturation: **Yes**

Primary Indicators: **(A3) Saturation, (B8) Sparsely Vegetated Concave Surface, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns, (D1) Stunted or Stressed Plants**

7. Notes

Drought conditions.

Plot ID: WL9

1. Survey Metadata

Site ID: **Inglisville**
Locale: **Inglisville**
Province: **NS**
Observer: **ZS**
Date: **October 2, 2025**
Time: **2:03 PM**
Latitude: **44.832353135° N**
Longitude: **65.133162736° W**
Plot Type: **Wetland**

2. Disturbance & Problematic Conditions

Are any of the following Disturbed?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Are any of the following Naturally Problematic?
Soils: **No**
Vegetation: **No**
Hydrology: **No**

Normal Climatic Conditions: **No**
Normal Circumstances Present: **No**

3. Summary Conditions

Hydrophytic Vegetation Present?: **Yes**
Hydric Soils Present?: **Yes**
Wetland Hydrology Present?: **Yes**
Is Sampling Location in a Wetland?: **Yes**

4. Vegetation

Species	% Cover
Tree Stratum	
Willow spp. (*Salix spp.*)	15%
Red Maple (*Acer rubrum*) – FAC	15%
Gray Birch (*Betula populifolia*) – FAC	5%
Paper Birch (*Betula papyrifera*) – FACU	5%
Balsam Fir (*Abies balsamea*) – FAC	5%
Yellow Birch (*Betula alleghaniensis*) – FAC	5%
Shrub Stratum	

Species	% Cover
Speckled Alder (*Alnus incana*) – FACW	20%
Red Maple (*Acer rubrum*) – FAC	15%
Wild Black Cherry (*Prunus serotina*) – FAC	5%
Balsam Fir (*Abies balsamea*) – FAC	5%
Black Spruce (*Picea mariana*) – FACW	5%
Herbaceous Stratum	
Cinnamon Fern (*Osmundastrum cinnamomea*) – FAC	20%
Crested Shield-fern (*Dryopteris cristata*) – FACW	10%
Rough-leaved Goldenrod (*Solidago rugosa*) – FAC	10%
New York Fern (*Thelypteris noveboracensis*) – FAC	10%
Sensitive Fern (*Onoclea sensibilis*) – FACW	5%
Dwarf Dogwood (*Cornus canadensis*) – FAC	3%
Dwarf Red Raspberry (*Rubus pubescens*) – FAC	3%
Swamp Loosestrife (*Lysimachia terrestris*) – FACW+	3%
Field Horsetail (*Equisetum arvense*) – FAC	3%
Marsh Bedstraw (*Galium palustre*) – FACW+	2%

5. Hydric Soils

Soil Horizons

Horizon	Thickness (cm)	Texture	Matrix	Matrix %	Redox	Redox %	Type	Location
H1	0-35	Hemic	Histosol					

Hydric Soil Indicators: (A1) Histosol

6. Wetland Hydrology

Restrictive Layer: **Yes**

Surface Water: **No**

Water Table: **Yes**

Saturation: **Yes**

Primary Indicators: **(A2) High Water Table, (A3) Saturation, (B8) Sparsely Vegetated Concave Surface, (B9) Water-stained Leaves**

Secondary Indicators: **(B10) Drainage Patterns, (D1) Stunted or Stressed Plants**

7. Notes

Drought conditions.

APPENDIX G

INDIVIDUAL WESP-AC SUMMARY TABLES

Table G.1: WL1 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	1.92	Lower	12.45	Higher
Stream Flow & Temperature Support (SFTS)	9.14	Higher	5.03	Moderate
Sediment & Toxicant Retention & Stabilisation (SR)	3.24	Lower	3.40	Moderate
Phosphorus Retention (PR)	2.20	Lower	2.33	Moderate
Nitrate Removal & Retention (NR)	2.71	Moderate	6.67	Higher
Wildfire Resistance (WFR)	3.23	Moderate	6.55	Higher
Carbon Stock Preservation (CSP)	3.82	Moderate		
Carbon Capture (CC)	5.21	Moderate		
Organic Nutrient Export (OE)	7.62	Higher		
Aquatic Primary Productivity (APP)	6.97	Higher	6.78	Moderate
Anadromous Fish Habitat (FA)	7.76	Higher	7.64	Higher
Resident & Other Fish Habitat (FR)	8.00	Higher	4.58	Higher
Amphibian Habitat (AM)	1.86	Lower	3.48	Moderate
Waterbird Feeding Habitat (WBF)	5.68	Moderate	10.00	Higher
Waterbird Nesting Habitat (WBN)	7.15	Moderate	10.00	Higher
Raptor & Wetland Songbird Habitat (RSB)	8.22	Moderate	1.75	Lower
Keystone Mammal Habitat (KMH)	12.41	Higher	10.00	Higher
Native Plant Habitat (PH)	6.97	Higher	2.48	Lower
Pollinator Habitat (POL)	9.83	Higher	3.33	Higher
Cultural & Recreational Importance (CRI)			3.39	Moderate
Wetland Sensitivity (Sens)			11.25	Higher
Wetland Stressors (STR)			4.43	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	1.92	Lower	12.45	Higher
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	3.40	Moderate	5.40	Higher
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	8.52	Higher	6.34	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	7.05	Higher	8.57	Higher
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	9.08	Higher	2.93	Higher

Table G.2: WL1 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	23.96	Low
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	18.38	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	54.03	Moderate
HABITAT SUPERGROUP - AQUATIC HABITAT	60.40	Moderate
HABITAT SUPERGROUP - TRANSITION HABITAT	26.58	Low
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.3: WL2 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	8.00	Higher	13.06	Higher
Stream Flow & Temperature Support (SFTS)	0.00	Lower	0.00	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	10.00	Higher	3.73	Moderate
Phosphorus Retention (PR)	10.00	Higher	1.65	Lower
Nitrate Removal & Retention (NR)	10.00	Higher	6.67	Higher
Wildfire Resistance (WFR)	3.14	Moderate	6.55	Higher
Carbon Stock Preservation (CSP)	9.14	Higher		
Carbon Capture (CC)	6.52	Higher		
Organic Nutrient Export (OE)	0.00	Lower		
Aquatic Primary Productivity (APP)	6.38	Higher	5.95	Moderate
Anadromous Fish Habitat (FA)	6.63	Moderate	4.25	Moderate
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	1.65	Lower	5.29	Moderate
Waterbird Feeding Habitat (WBF)	6.62	Moderate	10.00	Higher
Waterbird Nesting Habitat (WBN)	8.58	Higher	10.00	Higher
Raptor & Wetland Songbird Habitat (RSB)	6.83	Moderate	4.80	Moderate
Keystone Mammal Habitat (KMH)	12.41	Higher	10.00	Higher

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Native Plant Habitat (PH)	7.69	Higher	5.97	Moderate
Pollinator Habitat (POL)	9.88	Higher	6.67	Higher
Cultural & Recreational Importance (CRI)			3.17	Moderate
Wetland Sensitivity (Sens)			9.29	Higher
Wetland Stressors (STR)			3.58	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	8.00	Higher	13.06	Higher
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	9.89	Higher	5.34	Higher
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	4.25	Higher	4.46	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	6.64	Higher	7.95	Higher
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	9.01	Higher	6.24	Higher

Table G.4: WL2 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	104.48	High
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	52.83	High
SUPPORT SUPERGROUP - AQUATIC SUPPORT	18.98	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	52.80	Moderate
HABITAT SUPERGROUP - TRANSITION HABITAT	56.21	Moderate
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.5: WL3 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	1.09	Lower	4.24	Moderate
Stream Flow & Temperature Support (SFTS)	8.08	Higher	1.77	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	0.78	Lower	1.00	Lower
Phosphorus Retention (PR)	2.61	Lower	0.20	Lower
Nitrate Removal & Retention (NR)	2.19	Lower	0.97	Lower
Wildfire Resistance (WFR)	1.39	Lower	4.36	Moderate
Carbon Stock Preservation (CSP)	3.67	Moderate		
Carbon Capture (CC)	3.56	Lower		
Organic Nutrient Export (OE)	7.32	Moderate		
Aquatic Primary Productivity (APP)	4.68	Moderate	6.86	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.64	Lower	2.84	Lower
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	8.18	Higher	10.00	Higher
Raptor & Wetland Songbird Habitat (RSB)	6.82	Moderate	3.13	Lower
Keystone Mammal Habitat (KMH)	4.80	Moderate	10.00	Higher
Native Plant Habitat (PH)	7.26	Higher	4.16	Moderate
Pollinator Habitat (POL)	10.15	Higher	3.33	Higher
Cultural & Recreational Importance (CRI)			-0.12	Lower
Wetland Sensitivity (Sens)			7.47	Higher
Wetland Stressors (STR)			2.90	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	1.09	Lower	4.24	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	2.99	Lower	0.86	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	7.39	Higher	5.59	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	5.17	Higher	6.28	Higher
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	9.11	Higher	3.85	Higher

Table G.6: WL3 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	4.62	Low
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	2.57	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	41.28	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	32.50	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.12	Low
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.7: WL4 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	8.22	Higher	5.56	Moderate
Stream Flow & Temperature Support (SFTS)	0.00	Lower	0.00	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	7.11	Higher	0.60	Lower
Phosphorus Retention (PR)	10.00	Higher	0.82	Lower
Nitrate Removal & Retention (NR)	10.00	Higher	3.06	Lower
Wildfire Resistance (WFR)	0.93	Lower	4.36	Moderate
Carbon Stock Preservation (CSP)	7.46	Higher		
Carbon Capture (CC)	4.89	Moderate		
Organic Nutrient Export (OE)	0.00	Lower		
Aquatic Primary Productivity (APP)	2.73	Lower	5.54	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.66	Lower	2.79	Lower
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower
Raptor & Wetland Songbird Habitat (RSB)	6.65	Moderate	3.41	Moderate
Keystone Mammal Habitat (KMH)	4.52	Moderate	10.00	Higher
Native Plant Habitat (PH)	3.03	Lower	4.00	Moderate

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Pollinator Habitat (POL)	9.09	Moderate	3.33	Higher
Cultural & Recreational Importance (CRI)			0.06	Lower
Wetland Sensitivity (Sens)			9.81	Higher
Wetland Stressors (STR)			4.46	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	8.22	Higher	5.56	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	9.32	Higher	2.27	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	1.82	Lower	4.16	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	1.60	Lower	1.67	Lower
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	7.68	Moderate	3.79	Higher

Table G.8: WL4 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	45.72	High
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	21.18	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.57	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.67	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.11	Low
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.9: WL5 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	8.22	Higher	4.19	Moderate
Stream Flow & Temperature Support (SFTS)	0.00	Lower	0.00	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	7.11	Higher	0.15	Lower
Phosphorus Retention (PR)	10.00	Higher	0.21	Lower
Nitrate Removal & Retention (NR)	10.00	Higher	0.97	Lower
Wildfire Resistance (WFR)	0.82	Lower	4.36	Moderate
Carbon Stock Preservation (CSP)	7.46	Higher		
Carbon Capture (CC)	5.38	Moderate		
Organic Nutrient Export (OE)	0.00	Lower		
Aquatic Primary Productivity (APP)	2.73	Lower	5.66	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.85	Lower	2.80	Lower
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower
Raptor & Wetland Songbird Habitat (RSB)	6.69	Moderate	3.41	Moderate
Keystone Mammal Habitat (KMH)	4.77	Moderate	10.00	Higher
Native Plant Habitat (PH)	3.32	Lower	4.01	Moderate
Pollinator Habitat (POL)	9.09	Moderate	3.33	Higher
Cultural & Recreational Importance (CRI)			0.06	Lower
Wetland Sensitivity (Sens)			9.67	Higher
Wetland Stressors (STR)			2.63	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	8.22	Higher	4.19	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	9.32	Higher	0.71	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	1.82	Lower	4.24	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	1.71	Lower	1.68	Lower
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	7.73	Moderate	3.80	Higher

Table G.10: WL5 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	34.48	Moderate
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	6.59	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.72	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.88	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.35	Low
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.11: WL6 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	7.28	Moderate	4.26	Moderate
Stream Flow & Temperature Support (SFTS)	3.82	Moderate	0.88	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	5.80	Moderate	0.14	Lower
Phosphorus Retention (PR)	2.86	Lower	0.20	Lower
Nitrate Removal & Retention (NR)	4.02	Moderate	0.97	Lower
Wildfire Resistance (WFR)	0.93	Lower	4.36	Moderate
Carbon Stock Preservation (CSP)	5.09	Moderate		
Carbon Capture (CC)	3.50	Lower		
Organic Nutrient Export (OE)	6.84	Moderate		
Aquatic Primary Productivity (APP)	3.08	Lower	6.18	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.75	Lower	3.81	Moderate
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower
Raptor & Wetland Songbird Habitat (RSB)	6.67	Moderate	5.08	Moderate
Keystone Mammal Habitat (KMH)	4.78	Moderate	10.00	Higher
Native Plant Habitat (PH)	2.65	Lower	5.82	Moderate

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Pollinator Habitat (POL)	8.91	Moderate	6.67	Higher
Cultural & Recreational Importance (CRI)			0.06	Lower
Wetland Sensitivity (Sens)			5.39	Moderate
Wetland Stressors (STR)			2.97	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	7.28	Moderate	4.26	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	5.12	Moderate	0.70	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	5.71	Moderate	4.85	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	1.65	Lower	2.29	Moderate
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	7.49	Moderate	6.26	Higher

Table G.12: WL6 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	30.98	Moderate
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	3.61	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	27.72	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.77	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	46.90	Low
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.13: WL7 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	4.65	Moderate	4.26	Moderate
Stream Flow & Temperature Support (SFTS)	5.15	Moderate	1.10	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	2.80	Lower	2.70	Lower
Phosphorus Retention (PR)	2.37	Lower	0.20	Lower
Nitrate Removal & Retention (NR)	3.83	Moderate	1.39	Lower
Wildfire Resistance (WFR)	4.30	Moderate	4.36	Moderate
Carbon Stock Preservation (CSP)	4.54	Moderate		
Carbon Capture (CC)	5.99	Moderate		
Organic Nutrient Export (OE)	7.22	Moderate		
Aquatic Primary Productivity (APP)	5.52	Moderate	6.84	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.02	Lower	4.22	Moderate
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	6.51	Moderate	10.00	Higher
Raptor & Wetland Songbird Habitat (RSB)	8.01	Moderate	4.80	Moderate
Keystone Mammal Habitat (KMH)	4.89	Moderate	10.00	Higher
Native Plant Habitat (PH)	8.27	Higher	6.09	Moderate
Pollinator Habitat (POL)	9.52	Higher	6.67	Higher
Cultural & Recreational Importance (CRI)			-0.12	Lower
Wetland Sensitivity (Sens)			6.09	Moderate
Wetland Stressors (STR)			3.23	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	4.65	Moderate	4.26	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	3.96	Moderate	2.06	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	6.59	Moderate	5.41	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	4.11	Moderate	6.42	Higher
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	9.06	Higher	6.26	Higher

Table G.14: WL7 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	19.80	Low
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	8.17	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.63	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	26.36	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	56.71	Moderate
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.15: WL8 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	4.79	Moderate	4.13	Moderate
Stream Flow & Temperature Support (SFTS)	4.22	Moderate	0.91	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	2.53	Lower	1.01	Lower
Phosphorus Retention (PR)	3.81	Moderate	0.22	Lower
Nitrate Removal & Retention (NR)	3.31	Moderate	1.39	Lower
Wildfire Resistance (WFR)	1.36	Lower	4.36	Moderate
Carbon Stock Preservation (CSP)	5.43	Moderate		
Carbon Capture (CC)	4.94	Moderate		
Organic Nutrient Export (OE)	7.07	Moderate		
Aquatic Primary Productivity (APP)	3.76	Moderate	5.99	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.46	Lower	3.83	Moderate
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower
Raptor & Wetland Songbird Habitat (RSB)	6.73	Moderate	4.80	Moderate
Keystone Mammal Habitat (KMH)	4.96	Moderate	10.00	Higher
Native Plant Habitat (PH)	6.42	Moderate	5.97	Moderate

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Pollinator Habitat (POL)	9.98	Higher	6.67	Higher
Cultural & Recreational Importance (CRI)			-0.12	Lower
Wetland Sensitivity (Sens)			10.10	Higher
Wetland Stressors (STR)			3.23	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	4.79	Moderate	4.13	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	4.60	Moderate	1.13	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	6.05	Moderate	4.72	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	1.47	Lower	2.30	Moderate
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	8.85	Higher	6.24	Higher

Table G.16: WL8 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	19.79	Low
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	5.20	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	28.53	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.39	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.19	Moderate
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

Table G.17: WL9 WESP-AC Summary Table

Specific Functions or Values	Function Score (Normalized)	Function Rating	Benefits Score (Normalized)	Benefits Rating
Surface Water Storage (WS)	7.28	Moderate	4.26	Moderate
Stream Flow & Temperature Support (SFTS)	0.00	Lower	0.00	Lower
Sediment & Toxicant Retention & Stabilisation (SR)	5.40	Moderate	0.14	Lower
Phosphorus Retention (PR)	10.00	Higher	0.20	Lower
Nitrate Removal & Retention (NR)	10.00	Higher	0.97	Lower
Wildfire Resistance (WFR)	0.82	Lower	4.36	Moderate
Carbon Stock Preservation (CSP)	7.41	Higher		
Carbon Capture (CC)	4.31	Moderate		
Organic Nutrient Export (OE)	0.00	Lower		
Aquatic Primary Productivity (APP)	2.49	Lower	5.74	Moderate
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower
Amphibian Habitat (AM)	2.75	Lower	3.81	Moderate
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower
Raptor & Wetland Songbird Habitat (RSB)	6.66	Moderate	5.08	Moderate
Keystone Mammal Habitat (KMH)	4.76	Moderate	10.00	Higher
Native Plant Habitat (PH)	3.84	Moderate	5.85	Moderate
Pollinator Habitat (POL)	9.16	Moderate	6.67	Higher
Cultural & Recreational Importance (CRI)			0.06	Lower
Wetland Sensitivity (Sens)			8.65	Higher
Wetland Stressors (STR)			3.30	Moderate
Grouped Functions				
HYDROLOGIC (HYg) (WS)	7.28	Moderate	4.26	Moderate
WATER & CLIMATE PROTECTION (WQg) (max + average)/2 of SR, PR, NR, CSP	9.10	Higher	0.70	Moderate
AQUATIC SUPPORT (ASg) (max + average)/2 of SFTS, OE, APP	1.66	Lower	4.30	Moderate
AQUATIC HABITAT (AHg) (max+avg)/2 of FA, FR, AM, WBF, WBN	1.65	Lower	2.29	Moderate
TRANSITION HABITAT (THg) (max + avg)/2 of RSB, PH, POL	7.85	Moderate	6.27	Higher

Table G.18: WL9 WESP-AC Functional WSS Results

Function-Benefit Product (FBP)	FBP Score	FBP Score Category
SUPPORT SUPERGROUP - HYDROLOGIC	30.98	Moderate
SUPPORT SUPERGROUP - WATER & CLIMATE PROTECTION	6.41	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.15	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.77	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	49.22	Low
Grouped Functions		
Habitat Rule Satisfied?	**No**	
Support Rule Satisfied?	**No**	
Habitat/Support Hybrid Rule Satisfied?	**No**	
CONCLUSION	**Not a Functional WSS**	

APPENDIX H

VEGETATION INVENTORY

Table H.1: Complete Vegetation Inventory

Scientific Name	Common Name	NS S-Rank	Exotic or Invasive
Vascular Flora			
Abies balsamea	Balsam Fir	S5	-
Acer pensylvanicum	Striped Maple	S5	-
Acer rubrum	Red Maple	S5	-
Acer saccharum	Sugar Maple	S4S5	-
Alnus incana	Speckled Alder	S5	-
Amauropelta noveboracensis	New York Fern	S5	-
Amelanchier spp.	Serviceberry spp.	-	-
Anaphalis margaritacea	Pearly Everlasting	S5	-
Anthoxanthum odoratum	Large Sweet Vernal Grass	SNA	Exotic
Aralia nudicaulis	Wild Sarsaparilla	S5	-
Betula alleghaniensis	Yellow Birch	S5	-
Betula cordifolia	Heart-leaved Birch	S5	-
Betula papyrifera	Paper Birch	S5	-
Betula populifolia	Gray Birch	S5	-
Carex crinita	Fringed Sedge	S5	-
Carex gynandra	Nodding Sedge	S5	-
Carex intumescens	Bladder Sedge	S5	-
Carex scabrata	Rough Sedge	S5	-
Carex trisperma	Three-seeded Sedge	S5	-
Calamagrostis canadensis	Bluejoint Reed Grass	S5	-
Clintonia borealis	Yellow Bluebead Lily	S5	-
Comptonia peregrina	Sweet-Fern	S5	-
Coptis trifolia	Goldthread	S5	-
Cornus unalaschkensis	Dwarf Dogwood	S5	-
Dendrolycopodium dendroideum	Round-branched Tree-clubmoss	S5	-
Doellingeria umbellata	Hairy Flat-top White Aster	S5	-
Dryopteris cristata	Crested Wood Fern	S5	-
Dryopteris carthusiana	Spinulose Shield Fern	S5	-

Scientific Name	Common Name	NS S-Rank	Exotic or Invasive
Dryopteris intermedia	Evergreen Wood Fern	S5	-
Epipactis helleborine	Eastern Helleborine	SNA	Exotic
Equisetum arvense	Field Horsetail	S5	-
Euthamia graminifolia	Grass-leaved Goldenrod	S5	-
Fagus grandifolia	**American Beech**	**S3S4**	**-**
Fragaria virginiana	Wild Strawberry	S5	-
Fraxinus americana	White Ash	S4	-
Galium palustre	Marsh Bedstraw	S5	-
Gaultheria procumbens	Eastern Teaberry	S5	-
Glyceria canadensis	Canada Manna-grass	-	-
Glyceria striata	Fowl Manna-grass	S5	-
Hamamelis virginiana	American Witch-Hazel	S5	-
Ilex verticillata	Black Holly	S5	-
Kalmia angustifolia	Sheep Laurel	S5	-
Linnaea borealis	Twinflower	S5	-
Lonicera canadensis	Canada Fly Honeysuckle	S5	-
Lycopus uniflorus	Northern Bugleweed	S5	-
Lysimachia borealis	Northern Starflower	S5	-
Lysimachia terrestris	Swamp Loosestrife	S5	-
Maianthemum racemosum	False Solomon's Seal	S4S5	-
Maianthemum canadense	Wild Lily-of-the-valley	S5	-
Mitchella repens	Partridgeberry	S5	-
Nabalus trifoliolatus	Three-leaved Rattlesnakeroot	S5	-
Oclemena acuminata	Whorled Wood Aster	S5	-
Onoclea sensibilis	Sensitive Fern	S5	-
Osmunda spectabilis	Royal Fern	S5	-
Osmundastrum cinnamomeum	Cinnamon Fern	S5	-
Picea mariana	Black Spruce	S5	-
Picea rubens	Red Spruce	S5	-
Pinus resinosa	Red Pine	S4S5	-

Scientific Name	Common Name	NS S-Rank	Exotic or Invasive
Pinus strobus	Eastern White Pine	S5	-
Polystichum acrostichoides	Christmas Fern	S5	-
Populus grandidentata	Large-toothed Aspen	S5	-
Populus tremuloides	Trembling Aspen	S5	-
Prunus pensylvanica	Pin Cherry	S5	-
Prunus serotina	Wild Black Cherry	S5	-
Pteridium aquilinum	Bracken Fern	S5	-
Quercus rubra	Northern Red Oak	S5	-
Rubus hispidus	Bristly Dewberry	S5	-
Rubus idaeus	Red Raspberry	S5	-
Rubus pubescens	Dwarf Red Raspberry	S5	-
Salix spp.	Willow spp.	-	-
Scirpus atrocinctus	Black-girdled Bulrush	S5	-
Scirpus cyperinus	Common Woolly Bulrush	S5	-
Solidago rugosa	Rough-stemmed Goldenrod	S5	-
Spiraea alba	White Meadowsweet	S5	-
Symphyotrichum puniceum	Swamp Aster	S5	-
Taraxacum officinale	Common Dandelion	SNA	Exotic
Thelypteris palustris	Eastern Marsh Fern	S5	-
Trillidium undulatum	Painted Trillium	S5	-
Tsuga canadensis	Eastern Hemlock	S4	-
Typha latifolia	Broad-leaved Cattail	S5	-
Vaccinium myrtilloides	Velvet-leaved Blueberry	S5	-
Viburnum cassinoides	Northern Wild Raisin	S5	-
Nonvascular Flora			
Cladonia squamosa	Dragon Lichen	S5	-
Graphis scripta	Common Script Lichen	S5	-
Lobaria pulmonaria	Lungwort Lichen	S5	-
Parmelia squarrosa	Bottlebrush Shield Lichen	S5	-
Pseudocyphellaria holarctica	Yellow Specklebelly Lichen	S5	-

Scientific Name	Common Name	NS S-Rank	Exotic or Invasive
Ptilidium pulcherrimum	Naugehyde Liverwort	S5	-
Ricasolia quercizans	Smooth Lung Lichen	S5	-

Note: Bold indicates SOCI