

November 1, 2025 – MDWAM WETLAND SCORING FORM

Project/Site ID: _____ Assessment Dates: _____

Delineation Dates: _____ Project Type: Linear Non-Linear Mitigation (Creation Restoration Enhancement)

Evaluators: _____ Wetland ID/Name: _____ NWI (mapping): _____

WAA #: _____ Size: _____ (acres) Wetland Type (HGM Class): _____ MDWAM Regional Subclass: _____

Ecoregion: CP EMP Aerial Photo Date and Source: _____ Photos: _____

Notes:

LANDSCAPE CORE ELEMENT

Aquatic Context metric – Confirm in office review. See figures in Section 2.3.1.1 for examples

Describe barriers or alterations that prevent connection: _____ No barriers.
 Total # of aquatic resources within 1,000 feet of the WAA to which wetland connects (minimum size \geq 0.02 acres): _____ streams _____ wetlands _____ ponds
Score: _____

Buffer metric – Evaluate to 500 feet outward from WAA boundary. A micro delineation of buffer types is unnecessary, users should delineate the major units to provide a qualitative estimate of the buffer community potential. See figures in Section 2.3.1.2 for examples.

Buffer Type/Description	Score (See Narratives)	Percentage	Subtotal
1.			
2.			
3.			
4.			
5.			
<i>(Round to one decimal)</i>			Score: _____

HYDROLOGY CORE ELEMENT

Water source metric – Identify the dominant water sources and degree of natural or unnatural/artificial influence (Confirm in office review for watershed).

Natural Source: Precipitation Groundwater Overland flow Overbank flow/stream discharge Beaver activity Other: _____
 Unnatural/Manipulated Source/Controls: Impoundment Outfall Irrigation/pumping Fill Ditching/Channelization Other Artificial influence or control.
 Watershed/Drainage Area controls: Development Irrigated agriculture Wastewater treatment plant Impoundment Stormwater retention Change to flow/circulation from roads/ditching Other: _____
 Degree of artificial influence/control: Complete High Low None. Wetland created/restored/enhanced: Sustainable/replicates natural Controlled
 Comments: _____ **Score:** _____

Hydroperiod metric – Determine the natural variability and/or recent alteration of the duration, frequency, and magnitude of inundation/saturation.

Evaluate the hydroperiod including natural variation: Precipitation: typical atypical (deficit surplus) Source: _____
 High variation Low variation Evidence: _____
 Direct evidence of alteration: Natural: Logjam Channel migration Other: _____
 Human: Diversions Ditches/swales Levees Impoundments Other: _____
 Riverine (active floodplain only): Recent channel in-stability/dis-equilibrium (Degradation or Aggradation) Stable Channel _____
 Indirect evidence of alteration: None Wetland plant stress Plant morphology Upland species encroachment Plant Community Soil morphology
 Change/Alteration of hydroperiod: Due to natural events Human influences (None Slight or High) _____
 Degree hydroperiod of wetland created/restored/enhanced replicates natural patterns: _____
 Lacustrine fringe on human impoundment: High variability Low variability Recent changes to hydroperiod
 Comments: _____ **Score:** _____

Hydrologic flow metric – Movement of water to or from surrounding area and openness to water moving through the WAA (flow and circulation).

Flow: Inlets: # _____ Outlets: # _____ Signs of water movement to or from WAA: _____
 Restrictions: None Levee Berm/dam Diversion Ditch-Side Cast Road w/culverts Other: _____
 Magnitude of water movement into, through and out of the wetland (check indicators below): High Moderate Low
 High flow through: Floodplain Drift deposits Drainage patterns Sediment deposits Partially buried debris/trunks Scour Other: _____
 Low flow through: High landscape position Stagnant water Closed contours Debris dams Constricted Outlet Surface Roughness Other: _____
 Comments: _____ **Score:** _____

PHYSICAL STRUCTURE CORE ELEMENT

Topographic complexity metric – See figures in Section 2.3.4.1. Record % micro topography and % of the WAA for each elevation gradient. For multiple gradients, multiply the % topography by the % of the WAA for each gradient and sum the results to find the overall % of micro-topography

Of Elevation gradients present: _____ Evidence of gradients: Plant assemblages Level of saturation/inundation Path of water flow Slope
 Micro-topography (surface roughness) of WAA: Gradient 1: >50% 30-49% 10-29% <10%, Gradient 2: >50% 30-49% 10-29% <10%
 Gradient 3: >50% 30-49% 10-29% <10%

Types: Depression Pools Burrows Swales Wind-thrown tree holes Mounds Islands Variable shorelines Partially buried debris Debris jams Plant hummocks/roots Other: _____ Score: _____

Edge complexity metric – Initiate in office review and adjust based on field observations/delineation. See example figures in Section 2.3.4.2 to evaluate the irregularity of the wetland boundary and variability in vertical structure. Abutting habitats must border 30% or more of the WAA boundary.

WAA is: Surrounded by uplands In seasonal floodplain Abutting other wetland class/subclasses Has edge vertical structure variation (H-M-L)
 Horizontal variability: High Moderate Low None _____ Score: _____

Physical habitat richness metric – See definitions and the table in Section 2.3.4.3 for physical habitat types applicable to each wetland type. These must be in the WAA or within 25 feet of the WAA boundary.

Concentric high water marks Secondary channels Seasonally inundated swales Un-vegetated pools Un-vegetated flats Vegetated islands Slope with undercut, slump, or overhang Rock piles with voids Plant hummocks/vegetated mounds Submerged/floating vegetation Dense herbaceous cover
 Brambles/thickets Mature/late-successional stage of plant community (>24" DBH) Drift deposits/organic debris Brush piles Fallen logs Stumps/ Standing snags (≥6"DBH) Wind-thrown trees Tree root cavities Nesting cavities/dens Other _____

Total number of Physical habitat types present (wetland type sensitive - see narrative table): _____ Score: _____

BIOTIC STRUCTURE CORE ELEMENT

Plant strata metric – Use the applicable regional supplement and wetland determination data form(s). Use the 4 strata approach

Number of plant strata: ≥ 4 3 2 1 0 Strata present: herbaceous shrub/sapling tree woody vines _____ Score: _____

Species richness metric – Use the data from wetland delineation form(s) to count all species comprising 5% or more relative cover in each stratum.
 Species should be counted only once for all observations within the WAA.

Number of species across all strata and determination data forms (count species once) plus additional significant species (provide rationale for additional species outside plots). Plot Species _____ + Additional species (outside sample plots) _____ = Total species richness _____
 Rationale for adding additional species: _____ Score: _____

Non-native/Invasive Infestation metric – Use the data from the wetland delineation form(s) and additional observations. See tables in Section 2.3.5.3.2 for examples.

Average total relative cover of non-native/invasive species across all strata and determination data forms: _____ %

4 = <1% 3 = 1-10% 2 = 11-25% 1 = 26-50% 0 = 51-100%

Additional species cover outside plots are included (must be growing in the wetland) Rationale: _____ Score: _____

Interspersion metric – Estimate in the office review and confirm in the field. Use figure in Section 2.3.5.4.2 to determine the degree of interspersion of plant zones (≥5% of the WAA)

Degree of horizontal/plan view interspersion: High Moderate Low None _____ Score: _____

Herbaceous cover metric – Estimate only herbaceous plant species cover for the entire WAA.

Total cover of herbaceous, emergent and submergent plants: > 75% 51-75% 26-50% ≤ 25% _____ Score: _____

Vegetation alterations metric – Unnatural (human caused) stressors. Confirm in office review for past alterations.

Type (Check those applicable and circle R for recent or P for past): Cropping Disking-plowing R/P Land clearing/leveling R/P Mowing/shredding R/P Silviculture R/P Logging R/P Cutting R/P Trampling R/P Herbicide treatment R/P Herbivory R/P Disease R/P Chemical spill R/P Pollution R/P Grazing R/P Woody debris removal R/P Fire R/P Other R/P: _____

Percent of WAA with recent vegetation alteration: _____ % Severity of alteration: High Moderate Low

Percent of WAA with past vegetation alteration: _____ % Degree of recovery: Complete High Moderate Low

Alteration to improve wetland (degree of natural community recovery): _____

Rationale: _____ Score: _____

Plant life forms metric – Life forms must be present in ≥ 5% of the WAA

Bryophytes (mosses, liverworts, hornworts) Coniferous Trees Deciduous Broadleaf Trees Evergreen Broadleaf Trees Ferns Grasses
 Herbs Lichens or Fungi Sedges/Rushes Shrubs Woody Vines Floating/SAV

Total Number of Plant Life Forms: ≥ 6 = 4 4 or 5 = 3 3 = 2 1 or 2 = 1 0=0 _____ Score: _____

November 1, 2025 – MDWAM WETLAND FINAL SCORING FORM

Project/Site ID: _____ Assessment /Delineation Date: _____

Project Type: Linear Non-Linear Mitigation (Creation Restoration Enhancement) Other _____

Evaluators: _____ Wetland ID/Name: _____ NWI (mapping): _____

WAA #: _____ Size: _____ (acres) Wetland Class (HGM): _____ Regional Subclass: _____

Ecoregion: CP EMP Aerial Photo Date and Source: _____ Photos: _____

Notes:

Core Element	Metric	Metric score	Calculate Core Element Score	Core Element Score
Landscape	Aquatic context		Sum of metric scores (____ / 8) x 15	
	Buffer			
Hydrology	Water source		Sum of metric scores (____ / 16) x 30	
	Hydroperiod			
	Hydrologic flow			
	Surface drainage features			
Soils	Soil organic carbon		Sum of metric scores (____ / 23) x 15	
	Biogeochemical cycling			
	Sedimentation			
	Soil modification			
Physical Structure	Topographic complexity		Sum of metric scores (____ / 12) x 20	
	Edge complexity			
	Physical habitat richness			
Biotic Structure	Plant strata		Sum of metric scores (____ / 28) x 20	
	Species richness			
	Non-native/invasive infestation			
	Interspersion			
	Herbaceous cover			
	Vegetation alterations			
	Plant life forms			
Sum of core element scores = Base MDWAM wetland score				
Additional points for unique resources = overall MDWAM wetland score x 0.10 if: <ul style="list-style-type: none"> <input type="checkbox"/> Non-tidal wetlands of special state concern Rationale: _____ <input type="checkbox"/> Areas with populations (>20%) of the following species: Bald cypress, Atlantic white cedar, red spruce, balsam fir, or American larch <input type="checkbox"/> Delmarva Bay wetlands <input type="checkbox"/> Peatlands (histic epipedon or histosol present) 				
Additional points for limited habitats = overall MDWAM wetland score x 0.05 if: <ul style="list-style-type: none"> <input type="checkbox"/> Dominated (>50%) by native trees greater than 24-inch diameter at breast height <input type="checkbox"/> Dominated (>50%) by hard mast (i.e., acorns and nuts) producing native species in the tree strata <input type="checkbox"/> Large unfragmented wetland tracts and continuous riparian wetland corridors > 20 acres 				
Sum of overall wetland scores plus additional points = total overall MDWAM wetland score				(round to whole number)

Attach representative site photographs:

November 1, 2025 – MDWAM WETLAND FINAL SCORING SHEET FOR EVALUATING PROPOSED MITIGATION/IMPACT ACTIVITIES

Project/Site ID: _____		Assessment/Delineation Date: _____		Wetland ID/Name: _____ WAA No.: _____		Wetland ID/Name: _____ WAA No.: _____		Wetland ID/Name: _____ WAA No.: _____		
Project Type: <input type="checkbox"/> Linear <input type="checkbox"/> Non-Linear <input type="checkbox"/> Mitigation (<input type="checkbox"/> Creation <input type="checkbox"/> Restoration <input type="checkbox"/> Enhancement)				Notes:		Notes:		Notes:		
<input type="checkbox"/> Other _____ Evaluators: _____										
Wetland ID/Name: _____ WAA #: _____ Size: _____ Wetland Class (HGM): _____										
Regional Subclass: _____ Ecoregion: <input type="checkbox"/> CP <input type="checkbox"/> EMP										
Aerial Photo Date and Source: _____ Photos: _____										
Notes:				Date _____		Date _____		Date _____		
Core Element	Metric	Existing Metric score	Core Element Score Calculation	Existing Core Element Score	Proposed Metric Score	Proposed Core Element Score	Proposed Metric Score	Proposed Core Element Score	Proposed Metric Score	Proposed Core Element Score
Landscape	Aquatic context		Sum of metric scores (____ / 8) x 15							
	Buffer									
Hydrology	Water source		Sum of metric scores (____ / 16) x 30							
	Hydroperiod									
	Hydrologic flow									
	Surface drainage features									
Soils	Soil organic carbon		Sum of metric scores (____ / 23) x 15							
	Biogeochemical cycling									
	Sedimentation									
	Soil modification									
Physical Structure	Topographic complexity		Sum of metric scores (____ / 12) x 20							
	Edge complexity									
	Physical habitat richness									
Biotic Structure	Plant strata		Sum of metric scores (____ / 28) x 20							
	Species richness									
	Non-native/invasive infestation									
	Interspersion									
	Herbaceous cover									
	Vegetation alterations									
	Plant life forms									
Sum of core element scores = Base MDWAM wetland score										
Additional points for unique resources = overall MDWAM wetland score x 0.10 if:										
<input type="checkbox"/> Non-tidal wetlands of special state concern Rationale: _____										
<input type="checkbox"/> Areas with populations (>20%) of the following species: Bald cypress, Atlantic white cedar, red spruce, balsam fir, or American larch										
<input type="checkbox"/> Delmarva Bay wetlands										
<input type="checkbox"/> Peatlands (histic epipedon or histosol present)										
Additional points for limited habitats = overall MDWAM wetland score x 0.05 if:										
<input type="checkbox"/> Dominated (>50%) by native trees greater than 24-inch diameter at breast height										
<input type="checkbox"/> Dominated (>50%) by hard mast (i.e., acorns and nuts) producing native species in the tree strata										
<input type="checkbox"/> Large unfragmented wetland tracts and continuous riparian wetland corridors > 20 acres										
Sum of overall wetland scores plus additional points = Total Overall MDWAM Wetland Score (round to whole number)										

Attach Representative Site Photographs / Plans / Figures / Notes on Proposed Mitigation/Impact Activities Other Information: