Basic Information Sheet: Slope Wetlands

Assessment Area Nan	ne:		
Project Name:			
Assessment Area ID#	•		
Project ID#:			Date
Assessment Team Me	mbers for This AA	λ:	
Assessment Area Size	:		
Surface water present	t during the assess	ment? 🗆 Yes	s □ No Flowing?
Briefly describe the h	ydrology of the AA	A (e.g., water	sources, channels, swales, etc.)
AA Category:			
□ Pre-Restoration	□ Post-Restoration	□ Pre-Mitig	gation Post-Mitigation
□ Pre-Impact	□ Post-Impact	□ Ambient	□ Reference
□ Training	□ Other:		
Which best describe	es the type of wetla	and?	
☐ Channeled Wet Mea	adow (assoc. with a fl	luvial channel)	□ Non-Channeled Wet Meadow
□ Forested Slope	□ Seep or Sp	ŕ	
Are peat soils presen	nt in the AA?	□ Yes □ No	
AA Encompasses:			
□ entir	e wetland	□ portion of th	ne wetland
Which best describe assessment?	es the dominant hy	drologic stat	e of the AA at the time of
□ ponded/inundated	□ saturated soil, b	ut no surface w	vater □ moist □ dry
What is the apparen	nt hydrologic regir	ne of the wetl	land?
	months of the year (in	n > 5 out of 10	, seasonal slope wetlands support years.) Temporarily flooded slope nths of the year.
□ pereni	nial □ seasonal	□ temp	porarily flooded

Photo Identification Numbers and Description:				
	Photo	Description		
	ID No.			
1		Looking North into the AA		
2		Looking South into the AA		
3		Looking East into the AA		
4		Looking West into the AA		
5				
6				
7				
8				
9				
10				
	omments			

Scoring Sheet: Slope Wetlands

AA Name:				Date			
Attribute 1: Buffer and Land	Iscape	Context				Comments	
Aquatic Area Abundance Score (D)			Alpha	Numeric			
Buffer	(D)						
Buffer submetric A:	Alpha	Numeric					
Percent of AA with Buffer	_						
Buffer submetric B:							
Average Buffer Width							
Buffer submetric C:							
Buffer Condition							
Raw Attribute Sco	ore = D	- '	x B) ^{1/2}] ^{1/2} t round)			ttribute Score = Score/24) x 100	
Attribute 2: Hydrology							
Water Source			Alpha	Numeric			
Hydroperiod							
Hydrologic Connectivity (all but	Channel	led)					
Hydro Connectivity submetric A: Bank Height Ratio	Alpha	Numeric					
Hydro Connectivity submetric B: Percent Dewatered							
Hydrologic Connectivity for Cha	nneled (avg. of sub	metrics A-B)				
Raw Attribute Score = su						ttribute Score = Score/36) x 100	
Attribute 3: Physical Structu	ıre					,	
Structural Patch Richness			Alpha	Numeric			
Topographic Complexity							
Raw Attribute Score = su	ım of n	umeric	scores			ttribute Score = Score/24) x 100	
Attribute 4: Biotic Structure						·	
Plant Community Composition (submetr	ric A is no	t applicable	for Non-	Channeled	meadows)	
Plant Community submetric A: Number of plant layers	Alpha	Numeric				·	
Plant Community submetric B:							
Number of Co-dominant species							
Plant Community submetric C:							
Percent Invasive species							
Plant Community submetric D:							
Number of Encroachment groups							
Plant Comm. Composition (avg. 1)	f submet	rics A-D o		NT :			
Horizontal Interspersion			Alpha	Numeric			
Plant Life Forms							
Raw Attribute Score = su	ım of n	umeric	scores			ttribute Score = Score/36) x 100	
Overall AA Score (average	e of fo	ur final A	ttribute Sc	cores)		· /	

Worksheet for Aquatic Area Abundance Metric

Percentage of Transect Lines that Contains Wetland Habitat of Any Kind			
Segment Direction	Percentage of Transect Length		
	That is an Aquatic Feature		
North			
South			
East			
West			
Average Percentage of Transect Length			
That Is an Aquatic Feature			

Percent of AA with Buffer Worksheet.
In the space provided on the datasheet, make a quick sketch of the AA, or perform the assessmen directly on the aerial imagery; indicate where buffer is present, estimate the percentage of the AA perimeter providing buffer functions, and record the estimate amount in the space provided.

Worksheet for calculating Average Buffer Width of AA

Line	Buffer Width (m)
A	
В	
C	
D	
E	
F	
G	
Н	
Average Buffer Width	

Submetric A: Bank Height Ratio

Channeled Wet Meadow Wetland Bank Height Calculation Worksheet

The following 4 steps should be conducted for each of 3 cross-sections located in the AA at the approximate midpoints along straight riffles or glides, away from deep pools or meander bends. An attempt should be made to place them at the top, middle, and bottom of the AA.

Steps	Replicate Cross-sections	TOP	MID	BOT
1 Estimate bankfull width.	This is a critical step requiring familiarity with field indicators of the bankfull contour. Measure the distance between the right and left bankfull contours.			
2: Estimate max. bankfull depth.	Imagine a level line between the right and left bankfull contours; measure the height of the line above the thalweg (the deepest part of the channel).			
3: Estimate max. bank height	Identify the location of the top of bank. Measure the height between the thalweg and the top of bank location.			
4: Calculate bank height ratio.	Divide the bank height (Step 3) by the bankfull depth (Step 2).			
5: Calculate average bank height ratio.	Calculate the average results for Step 4 for all 3 replic sections. Enter the average result here and use it in Ta		S-	

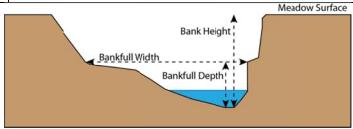


Figure 12: Diagram of bank height measurements. Bank height ratio is measured as maximum bank height divided by bankfull depth.

Structural Patch Type Worksheet for Slope Wetlands

Check each type of patch that is observed in the AA and use the total number of observed patches in Table 17 below.

STRUCTURAL PATCH TYPE (circle for presence)	Slope Wetland
Minimum Patch Size	3 m^2
Abundant wrack, organic debris, or thatch in	
channel, or across wetland plain	
Active fluvial channel(s)	
Animal mounds and burrows, or vole trails	
Bank slumps or undercut banks in channels	
Beaver dams or lodges	
Boulders or bedrock outcrop	
Concentric or parallel high water marks	
Cutoff channels or oxbows	
Filamentous macroalgae or algal mats	
Gravel or cobble	
Large woody debris	
Moss	
Non-vegetated flats or bare ground	
(scars, scalds, etc.)	
Pannes or pools on wetland surface	
Plant hummocks and/or tussocks	
Sediment mounds around the bases of shrubs	
or trees	
Sediment splays	
Soil cracks	
Springs or upwelling groundwater	
Standing snags (at least 3 m tall)	
Submerged vegetation (in channels or open	
water)	
Swales	
Variegated, convoluted, or crenulated upland	
edge (not broadly arcuate or mostly straight)	
Total Possible	23
No. Observed Patch Types (enter here and use in Table 17 below)	

Worksheet for AA Topographic Complexity

Complete a field sketch of the topographic profile of the AA along a cross section perpendicular to the overall slope of wetland within the AA. Draw the section to include both AA boundaries. Note AA boundaries, important topographic features, and vegetation roughness.			

Plant Community Metric Worksheet: Co-dominant species richness for Channeled Wet Meadow, Forested Slope wetlands, and Seeps and Springs
(A dominant species represents ≥10% relative cover)

Floating or Canopy-forming	Invasive?	Short (<0.3 m)	Invasive?
Medium (0.3-1.0 m)	Invasive?	Tall (1.0-3.0 m)	Invasive?
Very Tall (>3.0 m)	Invasive?	Total number of co-dominant	
		species for all layers combined	
		(enter here and use in Table 23)	
		Percent Invasion	
		(enter here and use in Table 23)	

Worksheet for Co-dominant Plant Species for Non-Channeled Wet Meadows.

Note: A dominant species represents $\geq 10\%$ relative cover. Count species only once when calculating any Plant Community sub-metric. Invasive species are listed in Appendix IV of the User's Manual.

Co-dominant Species	Check if Invasive
Total Number of Co-dominants	
Total Number of Invasive Co-dominant species	
Percent Invasive Species (round to nearest integer)	

Worksheet for Number of Upland Encroachment Groups.

Note: Each group must comprise at least 5% relative cover of the AA

Group	Present?
Conifers	
Deciduous Trees	
Upland Shrubs	
Vines	
Upland Grasses	
Total	

Horizontal Interspersion Worksheet

Use the spaces below to make a quick sketch of the AA in plan view, outlining the major plant zones (this should take no longer than 10 minutes). Assign the zones names and record them on the right. Based on the sketch, choose a single profile from Figure 16 that best represents the AA overall.

Assigned zones:
1)
2)
3)
4)
5)
6)

Vertical Structure Metric: Plant Life Forms.

Life Form	Present in > 5% of AA?
Herbs/Forbs	
Grasses	
Sedges/Rushes	
Shrubs	
Deciduous Trees	
Coniferous Trees	
Bryophytes (mosses, liverworts,	
hornworts)	
Lichens or Fungi	
Total Number of life forms	

Wetland disturbances and conversions

Has a major disturbance occurred at this wetland?	Yes	No				
If yes, was it a flood, fire, landslide, or other?	flood		fire		ndslide	other
If yes, then how severe is the disturbance?	likely to affect site more year		site next 3-5 site no		y to affect next 1-2 years	
	non-contined riverine		vernal pool		vernal pool system	
Has this wetland been converted from another type? If yes, then what was the previous type?			confined riverine			easonal tuarine
	perennial saline estuarine		perennial non- saline estuarine		wet meadow	
	lacustrin	e	seep or spi	ring		playa

Worksheet: Stressor Checklist

HYDROLOGY ATTRIBUTE (WITHIN 50 M OF AA)	Present	Present and likely to have significant negative effect on AA
Point Source (PS) discharges (POTW, other non-stormwater discharge)		
Non-point Source (Non-PS) discharges (urban runoff, farm drainage)		
Flow diversions or unnatural inflows		
Dams (reservoirs, detention basins, recharge basins)		
Flow obstructions (culverts, paved stream crossings)		
Weir/drop structure, tide gates		
Dredged inlet/channel		
Engineered channel (riprap, armored channel bank, bed)		
Dike/levees		
Groundwater extraction		
Ditches (borrow, agricultural drainage, mosquito control, etc.)		
Actively managed hydrology		
Comments		

PHYSICAL STRUCTURE ATTRIBUTE (WITHIN 50 M OF AA)	Present	Present and likely to have significant negative effect on AA
Filling or dumping of sediment or soils (N/A for restoration areas)		
Grading/ compaction (N/A for restoration areas)		
Plowing/Discing (N/A for restoration areas)		
Resource extraction (sediment, gravel, oil and/or gas)		
Vegetation management		
Excessive sediment or organic debris from watershed		
Excessive runoff from watershed		
Nutrient impaired (PS or Non-PS pollution)		
Heavy metal impaired (PS or Non-PS pollution)		
Pesticides or trace organics impaired (PS or Non-PS pollution)		
Bacteria and pathogens impaired (PS or Non-PS pollution)		
Trash or refuse		
Comments		

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BUFFER AND LANDSCAPE CONTEXT ATTRIBUTE (WITHIN 500 M OF AA)	Present	Present and likely to have significant negative effect on AA
Urban residential		
Industrial/commercial		
Military training/Air traffic		
Dams (or other major flow regulation or disruption)		
Dryland farming		
Intensive row-crop agriculture		
Orchards/nurseries		
Commercial feedlots		
Dairies		
Ranching (enclosed livestock grazing or horse paddock or feedlot)		
Transportation corridor		
Rangeland (livestock rangeland also managed for native vegetation)		
Sports fields and urban parklands (golf courses, soccer fields, etc.)		
Passive recreation (bird-watching, hiking, etc.)		
Active recreation (off-road vehicles, mountain biking, hunting, fishing)		
Physical resource extraction (rock, sediment, oil/gas)		
Biological resource extraction (aquaculture, commercial fisheries)		
Comments		