Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 1
Natural Conditions (Impact)

Acreage = 0.02

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.746
Biological	0.750
Chemical	0.657

Functional Capacity Units (FCU)

Physical	0.400
Biological	0.015
Chemical	0.013

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 3
Natural Conditions (Impact)

Acreage = 0.0003

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.583
Chemical	0.523

Functional Capacity Units (FCU)

Physical	0.0002
Biological	0.0002
Chemical	0.0002

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 4
Natural Conditions (Impact)

Acreage = 3.43

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	1.00	Greater than 30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.758
Biological	0.667
Chemical	0.593

Functional Capacity Units (FCU)

Physical	2.600
Biological	2.287
Chemical	2.035

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 5
Natural Conditions (Impact)

Acreage = 0.001

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.583
Chemical	0.553

Functional Capacity Units (FCU)

Physical	0.00060
Biological	0.00058
Chemical	0.00055

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 6
Natural Conditions (Impact)

Acreage = 0.43

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.684
Biological	0.583
Chemical	0.573

Functional Capacity Units (FCU)

Physical	0.294
Biological	0.251
Chemical	0.247

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 7
Natural Conditions (Impact)

Acreage = 0.033

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.583
Chemical	0.553

Functional Capacity Units (FCU)

Physical	0.020
Biological	0.019
Chemical	0.018

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 8
Natural Conditions (Impact)

Acreage = 0.004

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.617
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.00209
Biological	0.00222
Chemical	0.00185

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 9
Natural Conditions (Impact)

Acreage = 0.32

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.583
Chemical	0.553

Functional Capacity Units (FCU)

Physical	0.193
Biological	0.187
Chemical	0.177

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 10
Natural Conditions (Impact)

Acreage = 1.70

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	1.00	Greater than 30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.758
Biological	0.667
Chemical	0.593

Functional Capacity Units (FCU)

Physical	1.289
Biological	1.133
Chemical	1.009

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 11
Natural Conditions (Impact)

Acreage = 0.14

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	1.00	Greater than 30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.758
Biological	0.667
Chemical	0.593

Functional Capacity Units (FCU)

Physical	0.106
Biological	0.093
Chemical	0.083

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 12
Natural Conditions (Impact)

Acreage = 0.09

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.638
Biological	0.750
Chemical	0.620

Functional Capacity Units (FCU)

Physical	0.057
Biological	0.068
Chemical	0.056

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 13
Natural Conditions (Impact)

Acreage = 0.12

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.617
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.070
Biological	0.074
Chemical	0.062

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 14
Natural Conditions (Impact)

Acreage = 0.13

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	1.00	Wetland plus four habitat types and/or surrouned by forested
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.700
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.075
Biological	0.091
Chemical	0.067

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 16
Natural Conditions (Impact)

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	0.75	Herbaceous cover in the WAA averages between 50-75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.564
Biological	0.583
Chemical	0.537

Functional Capacity Units (FCU)

Physical	0.0056
Biological	0.0058
Chemical	0.0054

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 17
Natural Conditions (Impact)

Acreage = 0.04

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.533
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.023
Biological	0.021
Chemical	0.021

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 18
Natural Conditions (Impact)

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.667
Chemical	0.523

Functional Capacity Units (FCU)

Physical	0.006
Biological	0.007
Chemical	0.005

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 19
Natural Conditions (Impact)

Acreage = 0.42

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many motties)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.667
Chemical	0.523

Functional Capacity Units (FCU)

Physical	0.253
Biological	0.280
Chemical	0.220

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 20
Natural Conditions (Impact)

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.25	Midstory coverage of the WAA is between 1-25%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.602
Biological	0.667
Chemical	0.523

Functional Capacity Units (FCU)

Physical	0.006
Biological	0.007
Chemical	0.005

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 21
Natural Conditions (Impact)

Acreage = 0.04

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	0.50	Herbaceous cover in the WAA averages between 25-50%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.497
Biological	0.450
Chemical	0.480

Functional Capacity Units (FCU)

Physical	0.020
Biological	0.018
Chemical	0.019

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Wetland 23
Natural Conditions (Impact)

Acreage = 0.04

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.617
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.023
Biological	0.025
Chemical	0.021

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 24
Natural Conditions (Impact)

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.617
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.006
Biological	0.006
Chemical	0.005

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland 25
Natural Conditions (Impact)

Acreage = 1.85

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.617
Chemical	0.513

Functional Capacity Units (FCU)

Physical	1.072
Biological	1.141
Chemical	0.950

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland F(Wet 28)
Natural Conditions (Impact)

Acreage = 0.21

Variable	Sub-Index	Notes
V_{dur}	0.75	In an average year 80% of the WAA either floods and/or ponds for at least 7 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.10	Smooth, flat, or very gently undulating with little or no topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.446
Biological	0.533
Chemical	0.443

Functional Capacity Units (FCU)

Physical	0.094
Biological	0.112
Chemical	0.093

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland Pt 1
Natural Conditions (Impact)

Acreage = 0.03

Variable	Sub-Index	Notes
V_{dur}	0.50	In an average year 50-79% of the WAA either floods and/or ponds for at least 7 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.10	Smooth, flat, or very gently undulating with little or no topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.403
Biological	0.533
Chemical	0.393

Functional Capacity Units (FCU)

Physical	0.012
Biological	0.016
Chemical	0.012

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland Pt 3
Natural Conditions (Impact)

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	0.75	In an average year 80% of the WAA either floods and/or ponds for at least 7 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.10	Smooth, flat, or very gently undulating with little or no topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.50	Wetland plus one other habitat type or two other habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.446
Biological	0.533
Chemical	0.443

Functional Capacity Units (FCU)

Physical	0.004
Biological	0.005
Chemical	0.004

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland Pt 17
Natural Conditions (Impact)

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.10	Less than 10% of the WAA is covered with woody vegetation
V_{mid}	0.10	Midstory coverage of the WAA is less than 1%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.580
Biological	0.617
Chemical	0.513

Functional Capacity Units (FCU)

Physical	0.006
Biological	0.006
Chemical	0.005

ENHANCED & CREATED NON-TIDAL (FRESHWATER) WETLANDS

INTERIM RIVERINE/HERBACEOUS SHRUB HGM DATASHEETS

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 1- Enhanced Wet 1

Acreage = 0.35

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.775
Biological	0.917
Chemical	0.723

Functional Capacity Units (FCU)

Physical	0.400
Biological	0.321
Chemical	0.253

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 5- Enhanced Wet 1

Acreage = 0.35

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.775
Biological	0.917
Chemical	0.723

Functional Capacity Units (FCU)

Physical	0.400
Biological	0.321
Chemical	0.253

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 1- Enhanced Wet 2

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	0.75	In an average year 80% of the WAA either floods and/or ponds for at least 7 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.666
Biological	0.750
Chemical	0.640

Functional Capacity Units (FCU)

Physical	0.0067
Biological	0.0075
Chemical	0.0064

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 5- Enhanced Wet 2

Acreage = 0.01

Variable	Sub-Index	Notes
V_{dur}	0.75	In an average year 80% of the WAA either floods and/or ponds for at least 7 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	1.00	Greater than 90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.721
Biological	0.917
Chemical	0.723

Functional Capacity Units (FCU)

Physical	0.0072
Biological	0.0092
Chemical	0.0072

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 1- Enhanced Wet 3

Acreage = 0.02

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.638
Biological	0.750
Chemical	0.620

Functional Capacity Units (FCU)

Physical	0.013
Biological	0.015
Chemical	0.012

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 5- Enhanced Wet 3

Acreage = 0.02

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.704
Biological	0.917
Chemical	0.703

Functional Capacity Units (FCU)

Physical	0.014
Biological	0.018
Chemical	0.014

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet B
Year 1- Enhanced Wet 4

Acreage = 3.37

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	1.00	Greater than 30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.814
Biological	0.833
Chemical	0.677

Functional Capacity Units (FCU)

Physical	2.744
Biological	2.808
Chemical	2.280

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet B
Year 5- Enhanced Wet 4

Acreage = 3.37

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	1.00	Greater than 30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.841
Biological	0.917
Chemical	0.743

Functional Capacity Units (FCU)

Physical	2.834
Biological	3.089
Chemical	2.505

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 1- Enhanced Wet 5

Acreage = 0.02

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.638
Biological	0.750
Chemical	0.620

Functional Capacity Units (FCU)

Physical	0.013
Biological	0.015
Chemical	0.012

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 5- Enhanced Wet 5

Acreage = 0.02

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.704
Biological	0.917
Chemical	0.703

Functional Capacity Units (FCU)

Physical	0.014
Biological	0.018
Chemical	0.014

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 1- Enhanced Wet 6

Acreage = 2.77

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.716
Biological	0.750
Chemical	0.640

Functional Capacity Units (FCU)

Physical	1.983
Biological	2.078
Chemical	1.773

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet C
Year 5- Enhanced Wet 6

Acreage = 2.77

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.775
Biological	0.917
Chemical	0.723

Functional Capacity Units (FCU)

Physical	2.147
Biological	2.539
Chemical	2.004

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet B
Year 1- Enhanced Wet 7

Acreage = 0.03

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.638
Biological	0.750
Chemical	0.620

Functional Capacity Units (FCU)

Physical	0.019
Biological	0.023
Chemical	0.019

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet B
Year 5- Enhanced Wet 7

Acreage = 0.03

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{delritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.704
Biological	0.917
Chemical	0.703

Functional Capacity Units (FCU)

Physical	0.021
Biological	0.028
Chemical	0.021

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet D
Year 1- Enhanced Wet 8

Acreage = 0.31

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.638
Biological	0.750
Chemical	0.620

Functional Capacity Units (FCU)

Physical	0.198
Biological	0.233
Chemical	0.192

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet D
Year 5- Enhanced Wet 8

Acreage = 0.31

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	1.00	Midstory coverage of the WAA is more than 75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.704
Biological	0.917
Chemical	0.703

Functional Capacity Units (FCU)

Physical	0.218
Biological	0.284
Chemical	0.218

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet A
Year 1- Enhanced Wet 25

Acreage = 0.92

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.638
Biological	0.750
Chemical	0.620

Functional Capacity Units (FCU)

Physical	0.587
Biological	0.690
Chemical	0.570

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

On-site Mitigation Area Wet A
Year 5- Enhanced Wet 25

Acreage = 0.92

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.40	Less than 15% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.75	67-90% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.671
Biological	0.833
Chemical	0.687

Functional Capacity Units (FCU)

Physical	0.618
Biological	0.767
Chemical	0.632

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Wetland A
Created - Year 1

Acreage = 0.79

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.716
Biological	0.750
Chemical	0.590

Functional Capacity Units (FCU)

Physical	0.566
Biological	0.593
Chemical	0.466

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Wetland A
Created - Year 5

Acreage = 0.79

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.746
Biological	0.833
Chemical	0.657

Functional Capacity Units (FCU)

Physical	0.590
Biological	0.658
Chemical	0.519

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland B
Created - Year 1

Acreage = 1.68

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.716
Biological	0.750
Chemical	0.590

Functional Capacity Units (FCU)

Physical	1.203
Biological	1.260
Chemical	0.991

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland B
Created - Year 5

Acreage = 1.68

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.746
Biological	0.833
Chemical	0.657

Functional Capacity Units (FCU)

Physical	1.254
Biological	1.400
Chemical	1.103

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Wetland C
Created - Year 1

Acreage = 1.20

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.716
Biological	0.750
Chemical	0.590

Functional Capacity Units (FCU)

Physical	0.859
Biological	0.900
Chemical	0.708

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland C
Created - Year 5

Acreage = 1.20

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.746
Biological	0.833
Chemical	0.657

Functional Capacity Units (FCU)

Physical	0.895
Biological	1.000
Chemical	0.788

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet
SWG-2007-01475

Wetland D
Created - Year 1

Acreage = 0.86

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.25	11-33% of the WAA is covered with woody vegetation
V_{mid}	0.50	Midstory coverage of the WAA is between 25-50%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.716
Biological	0.750
Chemical	0.590

Functional Capacity Units (FCU)

Physical	0.616
Biological	0.645
Chemical	0.507

Interim Riverine/Herbaceous Shrub Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Wetland D
Created - Year 5

Acreage = 0.86

Variable	Sub-Index	Notes
V_{dur}	1.00	In an average year 80% of the WAA either floods and/or ponds for at least 14 consecutive days
V_{freq}	0.50	Floods or ponds 2 out of 5 years (100 yr floodplain)
V_{topo}	0.70	15-30% of the WAA is represented by dips, hummocks, channel sloughs and/or other topographic features
V_{wood}	0.50	34-66% of the WAA is covered with woody vegetation
V_{mid}	0.75	Midstory coverage of the WAA is between 50-75%
V_{herb}	1.00	Herbaceous cover in the WAA averages greater than 75%
$V_{connect}$	0.75	Wetland plus two or more habitat types (other than forested) or three or more habitat types
$V_{detritus}$	0.30	Less than 10% of the area possesses an O or A horizon
V_{redox}	1.00	Redox concentrations represent at least 20% of the pedon within the top 4 inchesof the soil surface, or feature masked due to parent material but conditions are conducive redoximorphic processes (many mottles)
V_{sorpt}	0.10	The WAA is dominated by sandy soils (sands, loamy fine sands, loamy sands)

Functional Capacity Index (FCI)

Physical	0.746
Biological	0.833
Chemical	0.657

Functional Capacity Units (FCU)

Physical	0.642
Biological	0.717
Chemical	0.565

ATTACHMENT D

TIDAL WETLANDS

SWG-2007-01475

HGM Overview
Tidal Wetland Creation

Impacted HGM Values – Tidal Wetlands

WAA	Acreage	Biological FCUs	Botanical FCUs	Physical FCUs	Chemical FCUs
TW 1	0.48	0.39	0.48	0.31	0.14
TW 3	0.19	0.15	0.19	0.10	0.06
TW 4	0.08	0.06	0.08	0.04	0.02
TW 5	0.02	0.02	0.02	0.01	0.01
TW 7	0.06	0.05	0.06	0.03	0.02
TW 10	0.44	0.43	0.44	0.33	0.15
TW 11	0.87	0.81	0.87	0.61	0.30
TOTAL:	**2.14**	**1.91**	**2.14**	**1.43**	**0.70**

Year 1: Wetland Creation HGM Values – Tidal Wetlands

WAA	Acreage	Biological FCUs	Botanical FCUs	Physical FCUs	Chemical FCUs
TW A	0.62	0.49	0.43	0.35	0.17
TW B	2.54	2.01	1.78	1.42	0.71
TOTAL:	**3.16**	**2.50**	**2.21**	**1.77**	**0.88**

Year 5: Wetland Creation HGM Values – Tidal Wetlands

WAA	Acreage	Biological FCUs	Botanical FCUs	Physical FCUs	Chemical FCUs
TW A	0.62	0.61	0.62	0.35	0.25
TW B	2.54	2.50	2.54	1.42	1.02
TOTAL:	**3.16**	**3.11**	**3.16**	**1.77**	**1.27**

SWG-2007-01475

Year 1: Net HGM Increase – Tidal Wetlands

WAA	Acreage	Biological FCUs	Botanical FCUs	Physical FCUs	Chemical FCUs
Created Values	3.16	2.50	2.21	1.77	1.27
Impacted Values	2.14	1.91	2.14	1.43	0.70
Creation Net Increase	**3.16**	**0.59**	**0.07**	**0.34**	**0.57**

Year 5: Net HGM Increase – Tidal Wetlands

WAA	Acreage	Biological FCUs	Botanical FCUs	Physical FCUs	Chemical FCUs
Created Values	3.16	3.11	3.16	1.77	1.27
Impacted Values	2.14	1.91	2.14	1.43	0.70
Creation Net Increase	**3.16**	**1.20**	**1.02**	**0.34**	**0.57**

IMPACTED TIDAL WETLANDS

INTERIM TIDAL FRINGE HGM DATASHEETS

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 1
Natural Conditions (Impact)

Acreage = 0.48

Variable	Sub-Index	Notes:
V_{edge}	0.70	Marsh shows deterioration due to subsidence, large amounts of open water
V_{hydro}	0.60	Moderate hydrologic restriction (low level berms that overtop by waves or multiple breeches)
V_{nhc}	0.50	3 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	1.00	Greater then 451 feet to water greater than or equal to 6 feet deep
V_{width}	0.60	Average WAA width is 151-225 feet
V_{rough}	0.80	FCI is 0.08
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.81
Botanical	1.00
Physical	0.64
Chemical	0.30

Functional Capacity Units (FCU)

Biological	0.39
Botanical	0.48
Physical	0.31
Chemical	0.14

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 3
Natural Conditions (Impact)

Acreage = 0.19

Variable	Sub-Index	Notes:
V_{edge}	0.40	Marsh lacks both tidal creeks & isolated ponds & depressions, shoreline is linear or smooth
V_{hydro}	0.60	Moderate hydrologic restriction (low level berms that overtop by waves or multiple breeches)
V_{nhc}	0.70	4 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	1.00	Greater then 451 feet to water greater than or equal to 6 feet deep
V_{width}	0.10	Average WAA width is 0-31 feet
V_{rough}	0.80	FCI is 0.08
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.78
Botanical	1.00
Physical	0.54
Chemical	0.30

Functional Capacity Units (FCU)

Biological	0.15
Botanical	0.19
Physical	0.10
Chemical	0.06

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 4
Natural Conditions (Impact)

Acreage = 0.08

Variable	Sub-Index	Notes:
V_{edge}	0.40	Marsh lacks both tidal creeks & isolated ponds & depressions, shoreline is linear or smooth
V_{hydro}	0.60	Moderate hydrologic restriction (low level berms that overtop by waves or multiple breeches)
V_{nhc}	0.70	4 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	1.00	Greater then 451 feet to water greater than or equal to 6 feet deep
V_{width}	0.10	Average WAA width is 0-31 feet
V_{rough}	0.60	FCI is 0.07
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.78
Botanical	1.00
Physical	0.50
Chemical	0.30

Functional Capacity Units (FCU)

Biological	0.06
Botanical	0.08
Physical	0.04
Chemical	0.02

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 5
Natural Conditions (Impact)

Acreage = 0.02

Variable	Sub-Index	Notes:
V_{edge}	0.40	Marsh lacks both tidal creeks & isolated ponds & depressions, shoreline is linear or smooth
V_{hydro}	0.60	Moderate hydrologic restriction (low level berms that overtop by waves or multiple breeches)
V_{nhc}	0.70	4 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	1.00	Greater then 451 feet to water greater than or equal to 6 feet deep
V_{width}	0.25	Average WAA width is 31-75 feet
V_{rough}	0.80	FCI is 0.08
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.78
Botanical	1.00
Physical	0.57
Chemical	0.35

Functional Capacity Units (FCU)

Biological	0.02
Botanical	0.02
Physical	0.01
Chemical	0.01

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 7
Natural Conditions (Impact)

Acreage = 0.06

Variable	Sub-Index	Notes:
V_{edge}	0.40	Marsh lacks both tidal creeks & isolated ponds & depressions, shoreline is linear or smooth
V_{hydro}	0.60	Moderate hydrologic restriction (low level berms that overtop by waves or multiple breeches)
V_{nhc}	0.50	3 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	1.00	Greater then 451 feet to water greater than or equal to 6 feet deep
V_{width}	0.25	Average WAA width is 31-75 feet
V_{rough}	0.80	FCI is 0.08
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.76
Botanical	1.00
Physical	0.57
Chemical	0.25

Functional Capacity Units (FCU)

Biological	0.05
Botanical	0.06
Physical	0.03
Chemical	0.02

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 10
Natural Conditions (Impact)

Acreage = 0.44

Variable	Sub-Index	Notes:
V_{edge}	1.00	Simple tidal drainage network
V_{hydro}	1.00	Site is open, no hydrologic restrictions
V_{nhc}	0.70	4 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	1.00	Greater then 451 feet to water greater than or equal to 6 feet deep
V_{width}	0.50	Average WAA width is 76-150 feet
V_{rough}	1.00	FCI is between 0.09 - 0.10
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.98
Botanical	1.00
Physical	0.74
Chemical	0.35

Functional Capacity Units (FCU)

Biological	0.43
Botanical	0.44
Physical	0.33
Chemical	0.15

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) 11
Natural Conditions (Impact)

Acreage = 0.87

Variable	Sub-Index	Notes:
V_{edge}	0.70	Simple tidal drainage network
V_{hydro}	1.00	Site is open, no hydrologic restrictions
V_{nhc}	0.70	4 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	0.50	151 - 450 feet to water greater than or equal to 6 feet deep
V_{width}	0.80	Average WAA width is 226-300 feet
V_{rough}	1.00	FCI is between 0.09 - 0.10
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.94
Botanical	1.00
Physical	0.70
Chemical	0.35

Functional Capacity Units (FCU)

Biological	0.81
Botanical	0.87
Physical	0.61
Chemical	0.30

CREATED TIDAL WETLANDS

INTERIM TIDAL FRINGE HGM DATASHEETS

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) A
Created - Year 1

Acreage = 0.62

Variable	Sub-Index	Notes:
V_{edge}	0.70	Well developed tidal drainage network present.
V_{hydro}	1.00	Site is open, no hydrologic restrictions
V_{nhc}	0.80	5 habitat types within 150' of WAA edge
$V_{typical}$	0.70	70% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	0.10	Less than 150 feet to water greater than or equal to 6 feet deep
V_{width}	0.50	Average WAA width is 76-150 feet
V_{rough}	1.00	FCI is between 0.09 - 0.10
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.79
Botanical	0.70
Physical	0.56
Chemical	0.28

Functional Capacity Units (FCU)

Biological	0.49
Botanical	0.43
Physical	0.35
Chemical	0.17

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) A
Created - Year 5

Acreage = 0.62

Variable	Sub-Index	Notes:
V_{edge}	1.00	Well developed tidal drainage network present.
V_{hydro}	1.00	Site is open, no hydrologic restrictions
V_{nhc}	0.80	5 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	0.10	Less than 150 feet to water greater than or equal to 6 feet deep
V_{width}	0.50	Average WAA width is 76-150 feet
V_{rough}	1.00	FCI is between 0.09 - 0.10
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.99
Botanical	1.00
Physical	0.56
Chemical	0.40

Functional Capacity Units (FCU)

Biological	0.61
Botanical	0.62
Physical	0.35
Chemical	0.25

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) B
Created - Year 1

Acreage = 2.54

Variable	Sub-Index	Notes:
V_{edge}	0.70	Well developed tidal drainage network present.
V_{hydro}	1.00	Site is open, no hydrologic restrictions
V_{nhc}	0.80	5 habitat types within 150' of WAA edge
$V_{typical}$	0.70	70% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	0.10	Less than 150 feet to water greater than or equal to 6 feet deep
V_{width}	0.50	Average WAA width is 76-150 feet
V_{rough}	1.00	FCI is between 0.09 - 0.10
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.79
Botanical	0.70
Physical	0.56
Chemical	0.28

Functional Capacity Units (FCU)

Biological	2.01
Botanical	1.78
Physical	1.42
Chemical	0.71

Interim Tidal Fringe Hydrogeomorphic Analysis Worksheet

SWG-2007-01475

Tidal Wetland (TW) B
Created - Year 5

Acreage = 2.54

Variable	Sub-Index	Notes:
V_{edge}	1.00	Well developed tidal drainage network present.
V_{hydro}	1.00	Site is open, no hydrologic restrictions
V_{nhc}	0.80	5 habitat types within 150' of WAA edge
$V_{typical}$	1.00	90-100% of the WAA is covered by vegetation typical of the regional subclass
V_{slope}	0.10	Less than 150 feet to water greater than or equal to 6 feet deep
V_{width}	0.50	Average WAA width is 76-150 feet
V_{rough}	1.00	FCI is between 0.09 - 0.10
V_{soil}	0.20	Sandy

Functional Capacity Index (FCI)

Biological	0.99
Botanical	1.00
Physical	0.56
Chemical	0.40

Functional Capacity Units (FCU)

Biological	2.50
Botanical	2.54
Physical	1.42
Chemical	1.02