

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 22-Aug-15
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15_T210_01
 Investigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): drainage
 Local relief (concave, convex, none): hummocky Slope: 8.7 % / 5.0 ° Elevation: _____
 Subregion: Interior Alaska Mountains Lat.: _____ Long.: _____ Datum: WGS84
 Soil Map Unit Name: _____ NWI classification: PEM1/SS1E

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks:	

VEGETATION -Use scientific names of plants. List all species in the plot.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum				
1. _____	_____	<input type="checkbox"/>	_____	
2. _____	_____	<input type="checkbox"/>	_____	
3. _____	_____	<input type="checkbox"/>	_____	
4. _____	_____	<input type="checkbox"/>	_____	
5. _____	_____	<input type="checkbox"/>	_____	
Total Cover:		<u>0</u>		
Sapling/Shrub Stratum				
	50% of Total Cover:	<u>0</u>	20% of Total Cover:	<u>0</u>
1. <u>Dasiphora fruticosa</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
2. <u>Betula nana</u>	<u>3</u>	<input type="checkbox"/>	<u>FAC</u>	
3. <u>Vaccinium uliginosum</u>	<u>1</u>	<input type="checkbox"/>	<u>FAC</u>	
4. <u>Empetrum nigrum</u>	<u>0.1</u>	<input type="checkbox"/>	<u>FAC</u>	
5. <u>Andromeda polifolia(IAM)</u>	<u>1</u>	<input type="checkbox"/>	<u>OBL</u>	
6. _____	<u>0</u>	<input type="checkbox"/>	_____	
7. _____	<u>0</u>	<input type="checkbox"/>	_____	
8. _____	<u>0</u>	<input type="checkbox"/>	_____	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover:		<u>35.1</u>		
	50% of Total Cover:	<u>17.55</u>	20% of Total Cover:	<u>7.02</u>
Herb Stratum				
1. <u>Carex aquatilis</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
2. <u>Menyanthes trifoliata</u>	<u>1</u>	<input type="checkbox"/>	<u>OBL</u>	
3. <u>Swertia perennis</u>	<u>1</u>	<input type="checkbox"/>	<u>FACW</u>	
4. <u>Eriophorum angustifolium</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
5. <u>Viola palustris(IAM)</u>	<u>0.1</u>	<input type="checkbox"/>	<u>FAC</u>	
6. <u>Trichophorum caespitosum</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
7. <u>Rumex arcticus</u>	<u>0.1</u>	<input type="checkbox"/>	<u>FAC</u>	
8. _____	<u>0</u>	<input type="checkbox"/>	_____	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover:		<u>47.2</u>		
	50% of Total Cover:	<u>23.6</u>	20% of Total Cover:	<u>9.44</u>

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL Species 47 x 1 = 47
 FACW Species 1 x 2 = 2
 FAC Species 34.3 x 3 = 102.9
 FACU Species 0 x 4 = 0
 UPL Species 0 x 5 = 0
 Column Totals: 82.3 (A) 151.9 (B)
 Prevalence Index = B/A = 1.846

Hydrophytic Vegetation Indicators:
 Dominance Test is > 50%
 Prevalence Index is ≤ 3.0
 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Plot size (radius, or length x width) 10m
 % Cover of Wetland Bryophytes (Where applicable) _____
 % Bare Ground 25
 Total Cover of Bryophytes 20

Hydrophytic Vegetation Present? Yes No

Remarks: Wet sedge with mossy hummocks (sphagnum) with dasfru

