

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 08-Aug-12  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12\_T44\_50  
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Terrace  
 Local relief (concave, convex, none): hummocky Slope: 0.0 % / 0.0 ° Elevation: 757  
 Subregion: Interior Alaska Mountains Lat.: 62.8907399116 Long.: -148.463311643 Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ **NWI classification: PEM1F**

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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: <u>splitting transect w CTS, begin numbering SLI plots at 50. wet sedge meadow w scattered peat hummocks. hummocks range in size from 30-100cm, dominated by betnan and vaculi.</u>	

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

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b>				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		0		
<b>Sapling/Shrub Stratum</b>				
	50% of Total Cover: 0	20% of Total Cover: 0		
1. <u>Salix fuscescens</u>	7	<input checked="" type="checkbox"/>	FACW	
2. <u>Betula nana</u>	10	<input checked="" type="checkbox"/>	FAC	
3. <u>Andromeda polifolia (IAM)</u>	3	<input type="checkbox"/>	OBL	
4. <u>Vaccinium uliginosum</u>	5	<input checked="" type="checkbox"/>	FAC	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		25		
	50% of Total Cover: 12.5	20% of Total Cover: 5		
<b>Herb Stratum</b>				
1. <u>Carex limosa</u>	30	<input checked="" type="checkbox"/>	OBL	
2. <u>Carex aquatilis</u>	30	<input checked="" type="checkbox"/>	OBL	
3. <u>Eriophorum scheuchzeri</u>	5	<input type="checkbox"/>	OBL	
4. <u>Carex rotundata</u>	3	<input type="checkbox"/>	OBL	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		68		
	50% of Total Cover: 34	20% of Total Cover: 13.6		

**Dominance Test worksheet:**  
 Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)  
 Total Number of Dominant Species Across All Strata: 5 (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 71 x 1 = 71  
 FACW Species 7 x 2 = 14  
 FAC Species 15 x 3 = 45  
 FACU Species 0 x 4 = 0  
 UPL Species 0 x 5 = 0  
 Column Totals: 93 (A) 130 (B)  
 Prevalence Index = B/A = 1.398

**Hydrophytic Vegetation Indicators:**  
 Dominance Test is > 50%  
 Prevalence Index is ≤ 3.0  
 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> 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 90  
 Total Cover of Bryophytes 7

**Hydrophytic Vegetation Present?** Yes  No

Remarks: trace spirom, carliv. salfus in standing water w sedges. trices in wetland, outside of plot. bare ground includes standing water. carrot may be carmem? betnan cover increases at margins, but center of wetland predominantly emergent w scattered betnan.

