

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 21-Jun-12  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12\_T32\_02  
 Investigator(s): JGK Landform (hillside, terrace, hummocks etc.): Gulch or Gully  
 Local relief (concave, convex, none): hummocky Slope: % / 15.7 ° Elevation: 100  
 Subregion: Interior Alaska Mountains Lat.: 62.7620081053 Long.: -148.306145759 Datum: NAD83  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: Upland

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

**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>Alnus viridis</u>	15	<input type="checkbox"/>	FAC	
2. <u>Salix richardsonii</u>	40	<input checked="" type="checkbox"/>	FACW	
3. <u>Salix commutata</u>	30	<input checked="" type="checkbox"/>	FAC	
4. <u>Linnaea borealis</u>	20	<input type="checkbox"/>	FACU	
5. <u>Viburnum edule</u>	5	<input type="checkbox"/>	FACU	
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>		110		
<b>Herb Stratum</b>				
	50% of Total Cover:	55	20% of Total Cover:	22
1. <u>Mertensia paniculata</u>	15	<input checked="" type="checkbox"/>	FACU	
2. <u>Petasites frigidus</u>	1	<input type="checkbox"/>	FACW	
3. <u>Rubus arcticus (IAM)</u>	2	<input type="checkbox"/>	FACU	
4. _____	0	<input type="checkbox"/>	_____	
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>		18		
	50% of Total Cover:	9	20% of Total Cover:	3.6

**Dominance Test worksheet:**  
 Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL Species 0 x 1 = 0  
 FACW Species 41 x 2 = 82  
 FAC Species 45 x 3 = 135  
 FACU Species 42 x 4 = 168  
 UPL Species 0 x 5 = 0  
 Column Totals: 128 (A) 385 (B)  
 Prevalence Index = B/A = 3.008

**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) 0  
 % Bare Ground 20  
 Total Cover of Bryophytes 10

**Hydrophytic Vegetation Present?** Yes  No

Remarks: 60% litter traces aneric polacu calcan

