

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 26-Aug-15  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15\_T309\_02  
 Investigator(s): JGK Landform (hillside, terrace, hummocks etc.): Bench  
 Local relief (concave, convex, none): concave Slope: 1.7 % / 1.0 ° Elevation: \_\_\_\_\_  
 Subregion: Interior Alaska Mountains Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ **NWI classification: PEM1/SS1F**

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: Small stream flowing to the west at north side of wetland.	

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

<u>Tree Stratum</u>	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. _____	_____	<input type="checkbox"/>	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	_____	<input type="checkbox"/>	_____	
5. _____	_____	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>0</u>				
<u>Sapling/Shrub Stratum</u>	50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>		<b>Prevalence Index worksheet:</b>
1. <u>Dasiphora fruticosa</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Total % Cover of: Multiply by:
2. <u>Betula nana</u>	<u>2</u>	<input type="checkbox"/>	<u>FAC</u>	OBL Species <u>67</u> x 1 = <u>67</u>
3. <u>Andromeda polifolia(IAM)</u>	<u>2</u>	<input type="checkbox"/>	<u>OBL</u>	FACW Species <u>4</u> x 2 = <u>8</u>
4. <u>Picea mariana</u>	<u>1</u>	<input type="checkbox"/>	<u>FACW</u>	FAC Species <u>27</u> x 3 = <u>81</u>
5. _____	<u>0</u>	<input type="checkbox"/>	_____	FACU Species <u>0</u> x 4 = <u>0</u>
6. _____	<u>0</u>	<input type="checkbox"/>	_____	UPL Species <u>0</u> x 5 = <u>0</u>
7. _____	<u>0</u>	<input type="checkbox"/>	_____	Column Totals: <u>98</u> (A) <u>156</u> (B)
8. _____	<u>0</u>	<input type="checkbox"/>	_____	Prevalence Index = B/A = <u>1.592</u>
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>30</u>				<b>Hydrophytic Vegetation Indicators:</b>
<u>Herb Stratum</u>	50% of Total Cover: <u>15</u>	20% of Total Cover: <u>6</u>		<input checked="" type="checkbox"/> Dominance Test is > 50%
1. <u>Carex aquatilis</u>	<u>35</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0
2. <u>Trichophorum caespitosum</u>	<u>10</u>	<input type="checkbox"/>	<u>OBL</u>	<input type="checkbox"/> Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. <u>Eriophorum angustifolium</u>	<u>10</u>	<input type="checkbox"/>	<u>OBL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain)
4. <u>Carex rariflora</u>	<u>5</u>	<input type="checkbox"/>	<u>OBL</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>Eriophorum viridicarinatum</u>	<u>5</u>	<input type="checkbox"/>	<u>OBL</u>	Plot size (radius, or length x width) <u>10m</u>
6. <u>Eriophorum russeolum</u>	<u>2</u>	<input type="checkbox"/>	<u>FACW</u>	% Cover of Wetland Bryophytes (Where applicable) _____
7. <u>Parnassia palustris</u>	<u>1</u>	<input type="checkbox"/>	<u>FACW</u>	% Bare Ground <u>35</u>
8. _____	<u>0</u>	<input type="checkbox"/>	_____	Total Cover of Bryophytes <u>30</u>
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>68</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
50% of Total Cover: <u>34</u>	20% of Total Cover: <u>13.6</u>			

Remarks: Bare ground is mostly water

