

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 02-Aug-12  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12\_T54\_07  
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Kettle  
 Local relief (concave, convex, none): flat Slope: 0.0 % / 1.0 ° Elevation: 754  
 Subregion: Southcentral Alaska Lat.: 62.8343876585 Long.: -149.148681207 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:	

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

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>		
1. <u>Dodecatheon jeffreyi</u>	5	<input checked="" type="checkbox"/>	FACW	Number of Dominant Species That are OBL, FACW, or FAC:	5 (A)	
2. <u>Tofieldia pusilla</u>	1	<input type="checkbox"/>	FAC	Total Number of Dominant Species Across All Strata:	5 (B)	
3. <u>Carex livida</u>	1	<input type="checkbox"/>	OBL	Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)	
4. <u>Thalictrum alpinum</u>	2	<input checked="" type="checkbox"/>	FAC			
5. <u>Drosera rotundifolia</u>	1	<input type="checkbox"/>	OBL			
<b>Total Cover:</b>			10			
<b>Sapling/Shrub Stratum</b>	50% of Total Cover:	5	20% of Total Cover:	2		
1. <u>Dasiphora fruticosa</u>	5	<input checked="" type="checkbox"/>	FAC	<b>Prevalence Index worksheet:</b> Total % Cover of: Multiply by: OBL Species <u>64</u> x 1 = <u>64</u> FACW Species <u>10</u> x 2 = <u>20</u> FAC Species <u>21</u> x 3 = <u>63</u> FACU Species <u>2</u> x 4 = <u>8</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>97</u> (A) <u>155</u> (B) Prevalence Index = B/A = <u>1.598</u>		
2. <u>Betula nana</u>	1	<input type="checkbox"/>	FAC			
3. <u>Vaccinium uliginosum</u>	2	<input type="checkbox"/>	FAC			
4. <u>Empetrum nigrum</u>	5	<input checked="" type="checkbox"/>	FAC			
5. <u>Andromeda polifolia</u>	2	<input type="checkbox"/>	FACW			
6. <u>Picea glauca</u>	1	<input type="checkbox"/>	FACU			
7. <u>Spiraea stevenii</u>	1	<input type="checkbox"/>	FACU			
8. _____	0	<input type="checkbox"/>	_____			
9. <u>Carex vaginata</u>	1	<input type="checkbox"/>	OBL			
10. <u>Deschampsia brevifolia</u>	1	<input type="checkbox"/>	OBL			
<b>Total Cover:</b>			19			
<b>Herb Stratum</b>	50% of Total Cover:	9.5	20% of Total Cover:	3.8		
1. <u>Carex pluriflora</u>	5	<input type="checkbox"/>	OBL	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0 <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
2. <u>Carex pauciflora</u>	1	<input type="checkbox"/>	OBL			
3. <u>Carex anthoxantha</u>	1	<input type="checkbox"/>	FACW			
4. <u>Trichophorum caespitosum</u>	45	<input checked="" type="checkbox"/>	OBL			
5. <u>Eriophorum angustifolium</u>	7	<input type="checkbox"/>	OBL			
6. <u>Menyanthes trifoliata</u>	1	<input type="checkbox"/>	OBL			
7. <u>Spiranthes romanzoffiana</u>	1	<input type="checkbox"/>	OBL			
8. <u>Swertia perennis</u>	1	<input type="checkbox"/>	FACW			
9. <u>Festuca altaica</u>	5	<input type="checkbox"/>	FAC			
10. <u>Arctagrostis latifolia</u>	1	<input type="checkbox"/>	FACW			
<b>Total Cover:</b>			68			
50% of Total Cover:			34			
20% of Total Cover:			13.6			

Remarks: possibly a mix of trices and trialp. Grasses collected for id. Trace senecio sp, plantathera sp, equpal. Additional herbs listed in tree and shrub layers.

