

**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\_04  
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Swale  
 Local relief (concave, convex, none): convex Slope: % / 13.3 ° Elevation: 738  
 Subregion: Southcentral Alaska Lat.: 62.8337999223 Long.: -149.15650404 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: tall closed canopy alder-willow community near head of drainage.	

**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. _____	0	<input type="checkbox"/>	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>0</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL Species <u>0</u> x 1 = <u>0</u> FACW Species <u>23</u> x 2 = <u>46</u> FAC Species <u>121</u> x 3 = <u>363</u> FACU Species <u>33</u> x 4 = <u>132</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>177</u> (A) <u>541</u> (B) Prevalence Index = B/A = <u>3.056</u>
<b>Sapling/Shrub Stratum</b>	50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>		
1. <u>Alnus viridis</u>	50	<input checked="" type="checkbox"/>	FAC	
2. <u>Ribes triste</u>	5	<input type="checkbox"/>	FAC	
3. <u>Salix barclayi</u>	10	<input type="checkbox"/>	FAC	
4. <u>Salix pulchra</u>	20	<input checked="" type="checkbox"/>	FACW	
5. <u>Oplopanax horridus</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> <u>90</u>				
<b>Herb Stratum</b>	50% of Total Cover: <u>45</u>	20% of Total Cover: <u>18</u>		
1. <u>Athyrium cyclosorum</u>	50	<input checked="" type="checkbox"/>	FAC	
2. <u>Cystopteris montana</u>	5	<input type="checkbox"/>	FAC	
3. <u>Phegopteris connectilis</u>	5	<input type="checkbox"/>	FACU	
4. <u>Dryopteris expansa</u>	10	<input type="checkbox"/>	FACU	
5. <u>Arctagrostis latifolia</u>	3	<input type="checkbox"/>	FACW	
6. <u>Cornus canadensis</u>	3	<input type="checkbox"/>	FACU	
7. <u>Streptopus amplexifolius</u>	5	<input type="checkbox"/>	FACU	
8. <u>Thalictrum sparsiflorum</u>	5	<input type="checkbox"/>	FACU	
9. <u>Carex microchaeta</u>	1	<input type="checkbox"/>	FAC	
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>87</u>				
50% of Total Cover: <u>43.5</u>	20% of Total Cover: <u>17.4</u>			

**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) 5m  
 % Cover of Wetland Bryophytes (Where applicable) \_\_\_\_\_  
 % Bare Ground 85  
 Total Cover of Bryophytes 10

**Hydrophytic Vegetation Present?** Yes  No

Remarks: all shrubs heavily browsed by insects. trace unid solidago collected at aw12\_t54\_02. tr acodel, pyrola secunda. 3% unid viola sp.

