

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 31-Jul-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T46_07
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Swale
 Local relief (concave, convex, none): concave Slope: 12.2 % / 7.0 ° Elevation: 841
 Subregion: Interior Alaska Mountains Lat.: 62.692786578 Long.: -147.658371647 Datum: WGS84
 Soil Map Unit Name: _____ NWI classification: PEM1E

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"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: <u>swale w flowing / standing water and emergent vegetation. adjacent picmar forest a PFO4B wetland knobs.</u>	

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

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Picea mariana</u>	10	<input checked="" type="checkbox"/>	FACW	Number of Dominant Species That are OBL, FACW, or FAC:	<u>7</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata:	<u>8</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>87.5%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
Total Cover: <u>10</u>					
Sapling/Shrub Stratum	50% of Total Cover: <u>5</u>	20% of Total Cover: <u>2</u>		Prevalence Index worksheet:	
1. <u>Salix pulchra</u>	10	<input checked="" type="checkbox"/>	FACW	Total % Cover of:	Multiply by:
2. <u>Dasiphora fruticosa</u>	1	<input type="checkbox"/>	FAC	OBL Species <u>17</u>	x 1 = <u>17</u>
3. <u>Spiraea stevenii</u>	5	<input checked="" type="checkbox"/>	FACU	FACW Species <u>41</u>	x 2 = <u>82</u>
4. <u>Picea mariana</u>	5	<input checked="" type="checkbox"/>	FACW	FAC Species <u>16</u>	x 3 = <u>48</u>
5. <u>Salix fuscescens</u>	1	<input type="checkbox"/>	FACW	FACU Species <u>5</u>	x 4 = <u>20</u>
6. <u>Betula glandulosa</u>	5	<input checked="" type="checkbox"/>	FAC	UPL Species <u>0</u>	x 5 = <u>0</u>
7. _____	0	<input type="checkbox"/>	_____	Column Totals: <u>79</u> (A)	<u>167</u> (B)
8. _____	0	<input type="checkbox"/>	_____	Prevalence Index = B/A =	<u>2.114</u>
9. _____	0	<input type="checkbox"/>	_____		
10. _____	0	<input type="checkbox"/>	_____		
Total Cover: <u>27</u>					
Herb Stratum	50% of Total Cover: <u>13.5</u>	20% of Total Cover: <u>5.4</u>		Hydrophytic Vegetation Indicators:	
1. <u>Ranunculus hyperboreus</u>	10	<input checked="" type="checkbox"/>	OBL	<input checked="" type="checkbox"/> Dominance Test is > 50%	
2. <u>Comarum palustre</u>	5	<input type="checkbox"/>	OBL	<input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0	
3. <u>Rumex acetosa</u>	0.1	<input type="checkbox"/>	FAC	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Carex canescens (IAM)</u>	10	<input checked="" type="checkbox"/>	FAC	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. <u>Juncus alpinoarticulatus ssp. nodulosus</u>	2	<input type="checkbox"/>	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
6. <u>Arctagrostis latifolia</u>	15	<input checked="" type="checkbox"/>	FACW	Plot size (radius, or length x width)	<u>2m x 10m</u>
7. _____	0	<input type="checkbox"/>	_____	% Cover of Wetland Bryophytes (Where applicable)	_____
8. _____	0	<input type="checkbox"/>	_____	% Bare Ground	<u>30</u>
9. _____	0	<input type="checkbox"/>	_____	Total Cover of Bryophytes	<u>30</u>
10. _____	0	<input type="checkbox"/>	_____		
Total Cover: <u>42.1</u>					
50% of Total Cover: <u>21.05</u> 20% of Total Cover: <u>8.42</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	

Remarks: trace epilobium sp, equarv, equsyl, and rumex sp.

