

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 30-Jul-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T49_03
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Flat
 Local relief (concave, convex, none): none Slope: 0.0 % / 2.0 ° Elevation: 726
 Subregion: Interior Alaska Mountains Lat.: 62.8143482447 Long.: -148.427369977 Datum: WGS84
 Soil Map Unit Name: _____ NWI classification: PEM1/SS1E

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: this portion of wetland is drier/shrubber than to the east. Plot centered around emergent vegetation visible in aerial.	

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

<u>Tree Stratum</u>	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/>	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</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"/>	_____	
Total Cover: <u>0</u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL Species <u>41</u> x 1 = <u>41</u> FACW Species <u>28</u> x 2 = <u>56</u> FAC Species <u>37</u> x 3 = <u>111</u> FACU Species <u>1</u> x 4 = <u>4</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>107</u> (A) <u>212</u> (B) Prevalence Index = B/A = <u>1.981</u>
Sapling/Shrub Stratum	50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>		
1. <u>Betula nana</u>	30	<input checked="" type="checkbox"/>	FAC	
2. <u>Salix pulchra</u>	10	<input checked="" type="checkbox"/>	FACW	
3. <u>Dasiphora fruticosa</u>	1	<input type="checkbox"/>	FAC	
4. <u>Empetrum nigrum</u>	1	<input type="checkbox"/>	FAC	
5. <u>Andromeda polifolia (IAM)</u>	1	<input type="checkbox"/>	OBL	
6. <u>Picea mariana</u>	3	<input type="checkbox"/>	FACW	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover: <u>46</u>				
Herb Stratum	50% of Total Cover: <u>23</u>	20% of Total Cover: <u>9.2</u>		
1. <u>Equisetum palustre</u>	10	<input checked="" type="checkbox"/>	FACW	
2. <u>Eriophorum angustifolium</u>	30	<input checked="" type="checkbox"/>	OBL	
3. <u>Carex canescens (IAM)</u>	5	<input type="checkbox"/>	FAC	
4. <u>Carex magellanica</u>	2	<input type="checkbox"/>	OBL	
5. <u>Eriophorum russeolum</u>	5	<input type="checkbox"/>	FACW	
6. <u>Carex aquatilis</u>	5	<input type="checkbox"/>	OBL	
7. <u>Carex gynocrates</u>	1	<input type="checkbox"/>	OBL	
8. <u>Moneses uniflora</u>	1	<input type="checkbox"/>	FACU	
9. <u>Comarum palustre</u>	2	<input type="checkbox"/>	OBL	
10. <u>Carex livida</u>	0.1	<input type="checkbox"/>	OBL	
Total Cover: <u>61.1</u>				
50% of Total Cover: <u>30.55</u>	20% of Total Cover: <u>12.22</u>			

Hydrophytic Vegetation Indicators:
 Dominance Test is > 50%
 Prevalence Index is ≤ 3.0
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹ 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) _____
 % Bare Ground 35
 Total Cover of Bryophytes 60

Hydrophytic Vegetation Present? Yes No

Remarks: bare ground include standing water. trace carex limosa. trace caraur. carygn may be carsci

