

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T41_03
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Lowland
 Local relief (concave, convex, none): hummocky Slope: % / 1.4 ° Elevation: 818
 Subregion: Interior Alaska Mountains Lat.: 62.801346395 Long.: -148.013612403 Datum: NAD83
 Soil Map Unit Name: _____ **NWI classification: PSS1/EM1E**

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: carbig tussocks and peaty hummocks with mesic shrubs, intermixed with wet sedge too finely to map separately. other lakeshore areas have less wet sedge and more tussocks and/or hummocks w mesic shrub community	

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

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
Total Cover:		0		
Sapling/Shrub Stratum	50% of Total Cover: 0	20% of Total Cover: 0		
1. <u>Vaccinium uliginosum</u>	10	<input checked="" type="checkbox"/>	FAC	
2. <u>Empetrum nigrum</u>	10	<input checked="" type="checkbox"/>	FAC	
3. <u>Betula nana</u>	15	<input checked="" type="checkbox"/>	FAC	
4. <u>Salix pulchra</u>	10	<input checked="" type="checkbox"/>	FACW	
5. <u>Rhododendron tomentosum</u>	10	<input checked="" type="checkbox"/>	FACW	
6. <u>Vaccinium vitis-idaea</u>	5	<input type="checkbox"/>	FAC	
7. <u>Spiraea stevenii</u>	1	<input type="checkbox"/>	FACU	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover:		61		
Herb Stratum	50% of Total Cover: 30.5	20% of Total Cover: 12.2		
1. <u>Carex aquatilis</u>	10	<input checked="" type="checkbox"/>	OBL	
2. <u>Carex canescens (IAM)</u>	20	<input checked="" type="checkbox"/>	FAC	
3. <u>Eriophorum viridicarinarum</u>	10	<input checked="" type="checkbox"/>	OBL	
4. <u>Equisetum arvense</u>	3	<input type="checkbox"/>	FAC	
5. <u>Carex bigelowii</u>	10	<input checked="" type="checkbox"/>	FAC	
6. <u>Arctagrostis latifolia</u>	15	<input checked="" type="checkbox"/>	FACW	
7. <u>Petasites frigidus</u>	3	<input type="checkbox"/>	FACW	
8. <u>Luzula parviflora</u>	1	<input type="checkbox"/>	FAC	
9. <u>Cornus canadensis</u>	1	<input type="checkbox"/>	FACU	
10. <u>Equisetum fluviatile</u>	1	<input type="checkbox"/>	OBL	
Total Cover:		74		
50% of Total Cover:	37	20% of Total Cover:	14.8	

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 10 (A)
 Total Number of Dominant Species Across All Strata: 10 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL Species 21 x 1 = 21
 FACW Species 38 x 2 = 76
 FAC Species 74 x 3 = 222
 FACU Species 2 x 4 = 8
 UPL Species 0 x 5 = 0
 Column Totals: 135 (A) 327 (B)
 Prevalence Index = B/A = 2.422

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) 5m
 % Cover of Wetland Bryophytes (Where applicable) _____
 % Bare Ground 30
 Total Cover of Bryophytes 30

Hydrophytic Vegetation Present? Yes No

Remarks: erivir mult heads, no red base, conspicuous leaf. trace rubcha, parnassia palustris, and poa sp. arclat same grass as collected at SW12_T46 on 7/31/12

