

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 03-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T38_04
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Flat
 Local relief (concave, convex, none): flat Slope: % / 5.2 ° Elevation: 514
 Subregion: Southcentral Alaska Lat.: 62.8358716513 Long.: -149.527690705 Datum: NAD83
 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: lower portion of peatland at 5% slope, which may not be representative of entire fen - review in gis.	

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>Betula nana</u>	3	<input checked="" type="checkbox"/>	FAC	
2. <u>Myrica gale</u>	2	<input checked="" type="checkbox"/>	OBL	
3. <u>Vaccinium oxycoccos</u>	1	<input type="checkbox"/>	OBL	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
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"/>	_____	
Total Cover:		6		
Herb Stratum				
	50% of Total Cover:	3	20% of Total Cover:	1.2
1. <u>Trichophorum caespitosum</u>	20	<input checked="" type="checkbox"/>	OBL	
2. <u>Carex pauciflora</u>	10	<input checked="" type="checkbox"/>	OBL	
3. <u>Carex magellanica</u>	5	<input type="checkbox"/>	OBL	
4. <u>Eriophorum angustifolium</u>	5	<input type="checkbox"/>	OBL	
5. <u>Drosera rotundifolia</u>	5	<input type="checkbox"/>	OBL	
6. <u>Eriophorum gracile</u>	3	<input type="checkbox"/>	OBL	
7. <u>Gentiana douglasiana</u>	3	<input type="checkbox"/>	FACW	
8. <u>Swertia perennis</u>	3	<input type="checkbox"/>	FACW	
9. <u>Carex rotundata</u>	2	<input type="checkbox"/>	OBL	
10. <u>Juncus biglumis</u>	2	<input type="checkbox"/>	OBL	
Total Cover:		58		
	50% of Total Cover:	29	20% of Total Cover:	11.6

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
 Total Number of Dominant Species Across All Strata: 4 (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 55 x 1 = 55
 FACW Species 6 x 2 = 12
 FAC Species 3 x 3 = 9
 FACU Species 0 x 4 = 0
 UPL Species 0 x 5 = 0
 Column Totals: 64 (A) 76 (B)
 Prevalence Index = B/A = 1.188

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 10
 Total Cover of Bryophytes 88

Hydrophytic Vegetation Present? Yes No

Remarks: additional herbs 2% each *menyanthes trifoliata*, *deschampsia brevifolia*. 1% *comarum palustre*. trace *viola* sp, *spiom.* *erigra* - multiple heads, no reddish base, long sheath compared to leaf. *gendou*, carrot, *poapal* collected. *drorot* % includes *droang*.

