

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: 8.7 % / 5.0 ° Elevation: 535
 Subregion: Southcentral Alaska Lat.: 62.8358732453 Long.: -149.527714969 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: 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				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Comarum palustre</u>	<u>1</u>	<input checked="" type="checkbox"/>	OBL	
2. <u>Menyanthes trifoliata</u>	<u>2</u>	<input checked="" type="checkbox"/>	OBL	
3. <u>Deschampsia brevifolia</u>	<u>2</u>	<input checked="" type="checkbox"/>	OBL	
4. _____	<u>0</u>	<input type="checkbox"/>		
5. _____	<u>0</u>	<input type="checkbox"/>		
Total Cover:		<u>5</u>		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species <u>60</u> x 1 = <u>60</u> FACW Species <u>6</u> x 2 = <u>12</u> FAC Species <u>3</u> x 3 = <u>9</u> FACU Species <u>0</u> x 4 = <u>0</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>69</u> (A) <u>81</u> (B) Prevalence Index = B/A = <u>1.174</u>
Sapling/Shrub Stratum	50% of Total Cover: <u>2.5</u>	20% of Total Cover: <u>1</u>		
1. <u>Betula nana</u>	<u>3</u>	<input checked="" type="checkbox"/>	FAC	
2. <u>Myrica gale</u>	<u>2</u>	<input checked="" type="checkbox"/>	OBL	
3. <u>Vaccinium oxycoccos</u>	<u>1</u>	<input type="checkbox"/>	OBL	
4. _____	<u>0</u>	<input type="checkbox"/>		
5. _____	<u>0</u>	<input type="checkbox"/>		
6. _____	<u>0</u>	<input type="checkbox"/>		
7. _____	<u>0</u>	<input type="checkbox"/>		
8. _____	<u>0</u>	<input type="checkbox"/>		
9. _____	<u>0</u>	<input type="checkbox"/>		
10. _____	<u>0</u>	<input type="checkbox"/>		
Total Cover:		<u>6</u>		
Herb Stratum	50% of Total Cover: <u>3</u>	20% of Total Cover: <u>1.2</u>		Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0 <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Carex pauciflora</u>	<u>10</u>	<input checked="" type="checkbox"/>	OBL	
2. <u>Eriophorum gracile</u>	<u>3</u>	<input type="checkbox"/>	OBL	
3. <u>Gentiana douglasiana</u>	<u>3</u>	<input type="checkbox"/>	FACW	
4. <u>Drosera rotundifolia</u>	<u>5</u>	<input type="checkbox"/>	OBL	
5. <u>Carex rotundata</u>	<u>2</u>	<input type="checkbox"/>	OBL	
6. <u>Carex magellanica</u>	<u>5</u>	<input type="checkbox"/>	OBL	
7. <u>Eriophorum angustifolium</u>	<u>5</u>	<input type="checkbox"/>	OBL	
8. <u>Juncus biglumis</u>	<u>2</u>	<input type="checkbox"/>	OBL	
9. <u>Trichophorum caespitosum</u>	<u>20</u>	<input checked="" type="checkbox"/>	OBL	
10. <u>Swertia perennis</u>	<u>3</u>	<input type="checkbox"/>	FACW	
Total Cover:		<u>58</u>		
50% of Total Cover:	<u>29</u>	20% of Total Cover:	<u>11.6</u>	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes (Where applicable) _____ % Bare Ground <u>10</u> Total Cover of Bryophytes <u>88</u> Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: additional herbs listed under tree stratum. trace viola sp, spirom. erigra - multiple heads, no reddish base, long sheath compared to leaf. gendou, carrot, poopal collected. drorot % includes droang.				

