## WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	Вс	rough/City:	Denali Bo	rough Sampling Date: 06-Aug-13
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T148_06
nvestigator(s): SLI, EAC	L	andform (hills	side, terrac	e, hummocks etc.): Shoreline
ocal relief (concave, convex, none): concave	;	Slope: 0.0	% / 0.0	° Elevation: 737
ubregion : Interior Alaska Mountains	Lat: 6	3.387360692		Long.: -148.588726759 Datum: WGS84
bil Map Unit Name:		0.00700002	·	NWI classification: PEM1F
re climatic/hydrologic conditions on the site typical for this time	of 1100m2	Voc	No ○	(If no, explain in Remarks.)
Are Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 sig	nificantly urally pro	disturbed? blematic?	Are "N (If nee	lormal Circumstances" present? Yes  No Oeded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes   No				
Hydric Soil Present? Yes ● No ○				pled Area
Wetland Hydrology Present? Yes ⊙ No ○		wi	thin a W	etland? Yes   No
Remarks: hgwfs lacustrine fringe wetland. several small cara	au icland	ls in associate	ad lake	
ph 5.46, ec 40.	iqu isianc	13 111 433001410	Lu luke.	
EGETATION -Use scientific names of plants. List	all spec	ies in the	plot.	
	bsolute	Dominant	Indicator	Dominance Test worksheet:
	6 Cover	Species?	Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC: (A)
2.	0			Total Number of Dominant Species Across All Strata: 2 (B)
3.	0			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5	0			Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0	20% c	of Total Cover:	0	OBL Species83 x 1 =83
1	0			FACW Species 0 x 2 = 0
2.	0			FAC Species0 x 3 =0
3.	0			FACU Species0 x 4 =0
4.	0			UPL Species <u>0</u> x 5 = <u>0</u>
5.	0			Column Totals: <u>83</u> (A) <u>83</u> (B)
6.	0			
7	0			Prevalence Index = B/A =1.000
8	0			Hydrophytic Vegetation Indicators:
9	0			✓ Dominance Test is > 50%
10.	0			✓ Prevalence Index is ≤3.0
Total Cover:  Herb Stratum 50% of Total Cover:0	0 20%	of Total Cover	: 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Carex aquatilis	45	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Eriophorum angustifolium	35	<b>✓</b>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Comarum palustre	3		OBL	be present, unless disturbed or problematic.
4.	0			Plot size (radius or longth y width)
5.	0			Plot size (radius, or length x width) 2m x 5m  % Cover of Wetland Bryophytes
6	0			(Where applicable)
7.	0			% Bare Ground
8	0			Total Cover of Bryophytes
9				
10				Hydrophytic
10				Vanatation
Total Cover: 50% of Total Cover:41	83			Vegetation Present? Yes  No

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SOIL Sampling Point: SW13\_T148\_06 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) Type <sup>1</sup> <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix Indicators for Problematic Hydric Soils:3 **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue U Other (Explain in Remarks) ✓ Hydrogen Sulfide (A4) Thick Dark Surface (A12) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleved (A13) and an appropriate landscape position must be present Alaska Redox (A14) <sup>4</sup> Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: h2s when wading in community **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) Drainage Patterns (B10) ☐ Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ✓ Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Microtopographic Relief (D4) Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Yes ● No ○ Surface Water Present? Depth (inches): 6 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe)

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Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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lacustrine fringe wetland. h2s when wading through community. scattered drier areas, but majority of wetland w 6+in water