WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 01-Aug-13		
Applica	nt/Owner: Alaska Energy Authority			· 	Sampling Point: SW13_T145_03		
	gator(s): SLI, EAC		Landform (hill	andform (hillside, terrace, hummocks etc.): Shoreline			
•	elief (concave, convex, none): flat		Slope:		Selevation: 720		
	ion : Interior Alaska Mountains	l at ·	63.398402332				
-		Lat	03.390402332	21			
	p Unit Name:		- V	<u> </u>	NWI classification: PEM1F		
Are V Are V		significant naturally p	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes No deded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes No		le	the Sam	unlad Araa		
	Hydric Soil Present? Yes ● No C)			pled Area /etland? Yes ◉ No ◯		
	Wetland Hydrology Present? Yes No)	W	ithin a W	etiand? Tes C No C		
/EGE	TATION -Use scientific names of plants. L				Dominance Test worksheet:		
Tree	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species		
1.		0		<u> </u>	That are OBL, FACW, or FAC: (A)		
2.				-	Total Number of Dominant Species Across All Strata: 2 (B)		
3.			-				
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.			- 🗀		December 2 december 2		
	Total Cover	:	-		Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species 75 x 1 = 75		
1		0		-	FACW Species $0 \times 2 = 0$		
1. 2.			- 📙		FAC Species 20 x 3 = 60		
3.		_	- 📙		FACU Species 0 x 4 = 0		
4.			-		UPL Species 0 x 5 = 0		
5.			-				
6.					Column Totals: <u>95</u> (A) <u>135</u> (B)		
7.		0			Prevalence Index = B/A = 1.421		
8.		0			Hydrophytic Vegetation Indicators:		
_		0			✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is ≤3.0		
	Total Cover b Stratum 50% of Total Cover:		- - % of Total Cove	r: <u>0</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Calamagrostis canadensis	20	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex aquatilis	70	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Comarum palustre			OBL	be present, unless disturbed or problematic.		
4.		0			Plot size (radius, or length x width) _5m		
		0	-		% Cover of Wetland Bryophytes		
6.			-		(Where applicable)		
			-		% Bare Ground99		
			-		Total Cover of Bryophytes		
			-				
			_		Hydrophytic		
	Total Cover	. ^-			Vogetation		
	Total Cover 50% of Total Cover:		_	: 19	Vegetation Present? Yes ● No ○		

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SOIL Sampling Point: SW13_T145_03 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 ¹ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:³ **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **Underlying Layer** Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) ✓ Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) ⁴ 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 odor when walking tnrougn.

HIDROLOGI								
Wetland Hydrology Indica	tors:	Secondary Indicators (two or more are required)						
Primary Indicators (any one i	is sufficient)	Water Stained Leaves (B9)						
✓ Surface Water (A1)		☐ Inundation Visible on Aerial Image	gery (B7) Drainage Patterns (B10)					
High Water Table (A2)		Sparsely Vegetated Concave Surfa	face (B8) Oxidized Rhizospheres along Living Roots (C3)					
Saturation (A3)		Marl Deposits (B15)	Presence of Reduced Iron (C4)					
☐ Water Marks (B1)		✓ Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)					
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:								
Surface Water Present?	Yes 💿 No	Depth (inches): 6						
Water Table Present? Yes No •		Depth (inches):	Wetland Hydrology Present? Yes ● No ○					
Saturation Present? (includes capillary fringe) Yes O No •		Depth (inches):						
Describe Recorded Data (stre hgwfs on lakeshore	am gauge, monit	cor well, aerial photos, previous inspection) if a	available:					
Remarks:								

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