WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Denali Bo	prough Sampling Date: 31-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T205_08
nvestigator(s): SLI, EAC	L	_andform (hill:	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope: 1.7		
Subregion : Interior Alaska Mountains	Lat: 6	3.365042567		Long.: -148.790448904 Datum: WGS84
Soil Map Unit Name:		0.000042001		NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this	time of voor	yos Vos	● No ○	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology . Soll , or Hydrology .	significantly naturally pro wing sam	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No No No No No No No No No				pled Area
Wetland Hydrology Present? Yes No		wi	thin a W	/etland? Yes ● No ○
Remarks: characterizing small R2UBH stream, 6-18in dec				
/EGETATION - Use scientific names of plants. L	ist all spec	·	•	Dominance Test worksheet: Number of Dominant Species
1.	0			That are OBL, FACW, or FAC:0(A)
2.	0			Total Number of Dominant Species Across All Strata: 0 (B)
3. 4.				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				Duarralance Index marksheets
Total Cove	r: <u>0</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
4	0		-	FACW Species 0 x 2 = 0
1 2.				FAC Species 0 x 3 = 0
				FACU Species 0 x 4 = 0
3. 4.				UPL Species 0 x 5 = 0
5.				
6.				Column Totals: 0 (A) 0 (B)
7.				Prevalence Index = B/A =
8.	0			Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cove Herb Stratum 50% of Total Cover:		of Total Cover	: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation ¹ (Explain)
2.				¹ Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
4.				Plot size (radius, or length x width) 1m x 5m
5.				Plot size (radius, or length x width) 1m x 5m % Cover of Wetland Bryophytes
6	0			(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9				
10.				Hydrophytic
	r: 0			Vegetation
Total Cove 50% of Total Cover:		of Total C	0	Present? Yes No

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SOIL Sampling Point: SW13_T205_08 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: **Hydric Soil Indicators:** Alaska Color Change (TA4) Histosol or Histel (A1) ☐ Alaska Gleyed Without Hue 5Y or Redder 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 Gleved (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: active channel, assume hydric soil **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): 12 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks: