## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Denali Bo	prough Sampling Date: 30-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T212_08
nvestigator(s): SLI. EAC	I	Landform (hills	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:	% / 2.5	5 ° Elevation: 653
Subregion : Interior Alaska Mountains	lat e	63.384984732		Long.: -148.906412125 Datum: NAD83
Soil Map Unit Name:		30.00+00+702	<u> </u>	NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for th	in time of year?	) Vac	● No ○	
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology .  Are Vegetation , Soil , or Hydrology .  SUMMARY OF FINDINGS - Attach site map s	significantly naturally pro	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
· · · · · · · · · · · · · · · · · · ·	o O	lo.	the Com	anled Area
Hydric Soil Present? Yes ● No	o O			ıpled Area /etland? Yes ◉ No ◯
	o O	l l		chana.
boulders, incorporating concrete) seperates ri	ver from hgwfs	w beaver dar	ns. no cove	le at plot location. Southern bank man-made levee (gravels- er (ohv, ucb, lwd) in vicinity of plot.
<b>/EGETATION -</b> Use scientific names of plants	s. List all spe	cies in the j	olot.	Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1			Status	That are OBL, FACW, or FAC:0 (A)
2.				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.	0			Prevalence Index worksheet:
Total Co	over:			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species0 x 1 =0
1	0			FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.				FACU Species <u>0</u> x 4 = <u>0</u>
4.				UPL Species 0 x 5 = 0
5				Column Totals:0 (A)0 (B)
6				
7	0			Prevalence Index = B/A =
8				Hydrophytic Vegetation Indicators:
9				☐ Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Total Co Herb Stratum 50% of Total Cover:		of Total Cover:	0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	_			be present, unless disturbed or problematic.
4				Plot size (radius, or length x width) _5m
5				% Cover of Wetland Bryophytes
6				(Where applicable)
l 7	0			% Bare Ground
7				Total Cover of Bryophytes 0
8				Total Cover of Bryophytes
8. 9.	0			
8. 9. 10.	0 0			Hydrophytic
8. 9.	0 0 0	of Total Cover:	0	

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SOIL Sampling Point: SW13\_T212\_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 <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 ✓ 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: 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): 24 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:

channel approx 30ft wide at ohw, water approx 2ft deeep