## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T146_09
nvestigator(s): SLI, EAC		Landform (hill	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:	% / 1.4	
Subregion : Interior Alaska Mountains	Lat ·	- · <u></u> 63.382453798		Long.: -148.758454324 Datum: NAD83
Soil Map Unit Name:	Lut	03.302433730		NWI classification: R2UBH
•			● No ○	
Are climatic/hydrologic conditions on the site typical for this to $\square$ , Soil $\square$ , or Hydrology $\square$		tly disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
	-	oroblematic?		eded, explain any answers in Remarks.)
	, ,		·	
SUMMARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No C		_		
Hydric Soil Present? Yes ● No C	)			ıpled Area /etland? Yes ◉ No ◯
Wetland Hydrology Present? Yes   No		wi	thin a W	etland? Yes ♥ No ∪
willows w nearly continous cover by overhanging	nall grave salix. 2 sı	I bar where the mall grayling ob	re are seven	gravel-cobble substrates, riffle-pool sequences near point. ral small (ca 3ft wide) channels extending into riparian
<b>EGETATION</b> -Use scientific names of plants. L	ist all sp	ecies in the	plot.	
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1.	0	_		Total Number of Dominant
2.		-		Species Across All Strata: 0 (B)
3.		-		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
4 5.	0	-		That Are OBL, FACW, or FAC: 0.0% (A/B)
Total Cover		- 🗀		Prevalence Index worksheet:
Sapling/Shrub Stratum 50% of Total Cover:		– % of Total Cover:	0	Total % Cover of: Multiply by:
				OBL Species 0 x1 = 0
1		-		FAC Species 0 x 2 = 0
2.		-		FAC Species 0 x 3 = 0 FACU Species 0 x 4 = 0
3.		-		UPL Species 0 x 5 = 0
5.	0	-		
		-	-	Column Totals:0 (A)0 (B)
		- 📙		Prevalence Index = B/A =0.000_
0		- H		Hydrophytic Vegetation Indicators:
o. 9.	0	- 🗍		Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cover		_		☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb Stratum 50% of Total Cover:	0 20	% of Total Cover	:0	Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2	0	_ 📙		<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) 10m
5		-		% Cover of Wetland Bryophytes
6		-		(Where applicable)
6	()	_		% Bare Ground
7				
7. 8.	0	- 📙		Total Cover of Bryophytes
7	0	- U		
7. 8.	0 0			Hydrophytic Vegetation

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SOIL Sampling Point: SW13\_T146\_09 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: **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)

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

Remarks:

active channel of creek, 6-36in deep in vicinity of point.