## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	prough Sampling Date: 31-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T205_08
nvestigator(s): SLI, EAC		Landform (hil	lside, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:		7 ° Elevation: 705
Subregion : Interior Alaska Mountains	Lat ·	63.365042567	 71	Long.: -148.790448904 Datum: NAD83
Soil Map Unit Name:		00.00004200	, ,	NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this	time of year	r2 Yes	● No ○	
Are Vegetation . , Soil . , or Hydrology .		ly disturbed?		Iormal Circumstances" present? Yes  No  No
Are Vegetation ✓ , Soil ✓ , or Hydrology ☐	J	•		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No	$\supset$	1-	the Com	and d Auso
Hydric Soil Present? Yes ● No	$\supset$			ıpled Area /etland? Yes ◉ No ◯
Wetland Hydrology Present? Yes   No		Į.	ithin a W	onana i
Remarks: characterizing small R2UBH stream, 6-18in deep	o, 3ft wide.	cover includes	ohv (salix),	, ucb. silt-gravel substrates, low velo.
<b>/EGETATION</b> -Use scientific names of plants.	List all spe	ecies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
1.	0	. 🔲		Total Number of Dominant
2.	0	. 📙		Species Across All Strata: 0 (B)
3.		. 📙		Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0	. $\square$		Prevalence Index worksheet:
Total Cove				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	or rotal cover	:0	OBL Species x 1 =
1	0	. 🔲		FACW Species 0 x 2 = 0
2	0			FAC Species 0 x 3 = 0
3.	0	. 📙		FACU Species 0 x 4 = 0
4		. 📙		UPL Species <u>0</u> x 5 = <u>0</u>
5		. 📙		Column Totals:0 (A)0 (B)
6.				Prevalence Index = B/A = 0.000
7.		. 📙		
8.		. 📙		Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
9.				
10Total Cove	- <u> </u>			Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:		% of Total Cove	r: 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) 1x5m
5.				Plot size (radius, or length x width) 1x5m  % Cover of Wetland Bryophytes
6	•			(Where applicable)
7				% Bare Ground
8	0			Total Cover of Bryophytes
9	0			
	0			Hydrophytic
10				
Total Cover:		of Total C	: 0	Vegetation 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 <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): 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: