## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Denali Bo	prough Sampling Date: 06-Aug-13
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T174_02
nvestigator(s): WAD, RWM	l	_andform (hills	side, terrac	e, hummocks etc.): Channel (active)
ocal relief (concave, convex, none): concave		Slope: 10.5	% / 6.0	Control of the second of the s
ubregion : Interior Alaska Mountains	Lat.: 6	3.36482358		Long.: -148.54865694 Datum: WGS84
bil Map Unit Name:				NWI classification: R3UBH
re climatic/hydrologic conditions on the site typical for this	-		● No ○	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly			iornal olloumstances present:
Are Vegetation $\square$ , Soil $\square$ , or Hydrology $\square$	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site map sho	owing sam	pling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No	$\circ$			
Hydric Soil Present? Yes   No	$\supset$			pled Area
Wetland Hydrology Present? Yes   No	$\circ$	wit	thin a W	etland? Yes ● No ○
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Remarks: Small subalpine perennially flooded creek. sing	gie sinuous ci	nannei rocky i	ipiand ban	KS.
<b>EGETATION</b> - Use scientific names of plants. I	List all spe	cies in the p	olot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum_	% Cover	Species?	Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC:
2.	0			Total Number of Dominant Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5				Prevalence Index worksheet:
Total Cove	er: <u> </u>			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =
1	0			FACW Species 0 x 2 = 0
2.	•			FAC Species0 x 3 =0
3.	0			FACU Species 0 x 4 = 0
4	•			UPL Species
5				Column Totals:0 (A)0 (B)
6	0			Prevalence Index = B/A =0.000_
7				Trevalence mack - B/A - 0.000
8				Hydrophytic Vegetation Indicators:
9.				☐ Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:		of Total Cover:	0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation (Explain)
2				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0			be present, unless disturbed or problematic.
3				District (and it as an instable to trible)
4				Plot size (radius, or length x width) <u>10m</u>
4.         5.				% Cover of Wetland Bryophytes
4.         5.         6.	0 0			% Cover of Wetland Bryophytes (Where applicable)
4	0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground
4	0 0 0			% Cover of Wetland Bryophytes (Where applicable)
4	0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes
4.         5.         6.         7.         8.	0 0 0 0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground

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SOIL Sampling Point: SW13\_T174\_02 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:<sup>3</sup> **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 Gleyed (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 Indica	itors:		Secondary Indicators (two or more are required)
Primary Indicators (any one	is sufficient)		Water Stained Leaves (B9)
✓ Surface Water (A1)		Inundation Visible on Aerial Image	ery (B7) Drainage Patterns (B10)
High Water Table (A2)		Sparsely Vegetated Concave Surfa	ace (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)	ı		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes   No	Depth (inches): 5	
Water Table Present?	Yes O No 💿	Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)	Yes ○ No •	Depth (inches):	
Describe Recorded Data (stre	am gauge, monitor we	ll, aerial photos, previous inspection) if av	railable:
D ulca			
Remarks:			
perm flooded channel rocky s	substrate.		

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