WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	prough Sampling Date: 06-Aug-13
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T174_02
vestigator(s): WAD, RWM		Landform (hill	side, terrac	ce, hummocks etc.): Channel (active)
ocal relief (concave, convex, none): concave		Slope:		1 ° Elevation: 100
		63.364823580		Long.: -148.548656941 Datum: NAD83
ubregion : Interior Alaska Mountains	Lat	03.304623360)	
oil Map Unit Name:		- \	<u> </u>	NWI classification: R3UBH
re climatic/hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology UMMARY OF FINDINGS - Attach site map sho	significantly naturally pr	disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area
Hydric Soil Present? Yes ● No (\mathcal{L}		ithin a W	
Wetland Hydrology Present? Yes No Remarks: Small subalpine perennially flooded creek. single		ļ ,		otiana i
EGETATION - Use scientific names of plants. I	List all spe	cies in the	•	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	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.	0			Percent of dominant Species
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5	0			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
1	0			FACW Species 0 x 2 = 0
2.				FAC Species
3.	•			FACU Species0 x 4 =0
4	_			UPL Species0 x 5 =0
5	0			Column Totals:0 (A)0 (B)
6	0			
7	0			Prevalence Index = B/A =
8				Hydrophytic Vegetation Indicators:
9				☐ Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Total Cover _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 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)
5.	0			% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
	0			
9				
10	0			Hydrophytic
	0 er: 0	of Total Cover:	. 0	Hydrophytic Vegetation Present? Yes No

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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 ¹ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:³ **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **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 Gleyed (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

HIDROLOGI						
Wetland Hydrology Indica	tors:				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	y (B7)	☐ Drainage Patterns (B10)	
High Water Table (A2)			Sparsely Vegetated Concave Surface	ce (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)					FAC-neutral Test (D5)	
Field Observations:	_	_				
Surface Water Present?	Yes 💿	No O	Depth (inches): 5			
Water Table Present?	Yes 🔾	No 💿	Depth (inches):	Wetland Hyd	Irology Present? Yes $lacktriangle$ No $lacktriangle$	
Saturation Present? (includes capillary fringe)	Yes \bigcirc	No •	Depth (inches):			
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:						
Remarks:						
perm flooded channel rocky substrate.						
permi nooded chamilei rocky si	ibstrate.					

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