## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:24-Aug-15		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T315_03		
Investigator(s): EKJ, SCB		Landform (hills	side, terrac	e, hummocks etc.): pond		
Local relief (concave, convex, none): none		Slope: 0.0	% / 0.0	° Elevation:		
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84		
Soil Map Unit Name:				NWI classification: PUBH		
Are climatic/hydrologic conditions on the site typical for this ti	ima of voor	2 Vec	● No ○			
Are Vegetation , Soil , or Hydrology :	significantly naturally pr	disturbed? oblematic?	Are "N (If nee	ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes ● No C						
Hydric Soil Present? Yes   No   Is the San				-		
Wetland Hydrology Present? Yes ● No C	)	wi	within a Wetland? Yes $lacktriangle$ No $lacktriangle$			
Remarks:						
VEGETATION - Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum  1.	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:0(A)		
2.				Total Number of Dominant Species Across All Strata: 0 (B)		
3.				Percent of dominant Species		
4.				That Are OBL, FACW, or FAC: 0.0% (A/B)		
5Total Cover	<u> </u>			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species		
1				FACW Species 0 x 2 = 0		
2.				FAC Species <u>0</u> x 3 = <u>0</u>		
3.				FACU Species <u>0</u> x 4 = <u>0</u>		
4				UPL Species0 x 5 =0		
5				Column Totals:0 (A)0 (B)		
6.				Prevalence Index = B/A =1.000_		
7 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				✓ Problematic Hydrophytic Vegetation (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) 10m		
5				Plot size (radius, or length x width)		
6	0			(Where applicable)		
7				% Bare Ground		
8				Total Cover of Bryophytes		
9						
10				Hydrophytic		
<b>Total Cover:</b> 50% of Total Cover:		of Total Cover:	0	Vegetation Present?  Yes   No ○		
Remarks: largely unvegetated subalpine pond with a few tundra.	patches of	f sparganium (	species un	known), patchy fringe of sedges, adjacent to wet sedge		

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SOIL Sampling Point: SW15\_T315\_03 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:** 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) <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: inundated pond, assume hydric soil.

HYDROLOGY				
Wetland Hydrology Indica	ators:			Secondary Indicators (two or more are required)
_Primary Indicators (any one is sufficient)			Water Stained Leaves (B9)	
✓ Surface Water (A1)		✓ Inundation Visible on Aerial Ima	gery (B7)	Drainage Patterns (B10)
High Water Table (A2)		Sparsely Vegetated Concave Sur	face (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 ○	Depth (inches):		
Water Table Present?	Yes ○ No •	Depth (inches):	Wetland Hy	ydrology Present? Yes 🍳 No 🔾
Saturation Present? (includes capillary fringe)	Yes O No 💿	Depth (inches):		
Describe Recorded Data (stre	am gauge, monitor w	ell, aerial photos, previous inspection) if a	available:	
Remarks:				
total pond depth unknown.				

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