## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		orough/City.	Matanusk	ka-Susitna Borough Sampling Date: 09-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T123_04
nvestigator(s): WAD, BAB		Landform (hill	side, terrac	ce, hummocks etc.): Channel (active)
ocal relief (concave, convex, none): concave		Slope:		6 ° Elevation: 965
Subregion : Southcentral Alaska	Lat ·	62.751375556		Long.: -149.388684988 Datum: NAD83
Soil Map Unit Name:		02.701070000		NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this til		n Voc	● No ○	
		disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
		oblematic?		eded, explain any answers in Remarks.)
	•			
SUMMARY OF FINDINGS - Attach site map show	wing sam	pling 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 ∪
Remarks:				
/EGETATION -Use scientific names of plants. Li	•		•	Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator	Number of Dominant Species
1.	0			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.	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
1.	0			FACW Species 0 x 2 = 0
1. 2.				FAC Species 0 x 3 = 0
3.	•			FACU Species 0 x 4 = 0
4.	_			UPL Species 0 x 5 = 0
5.				Column Totals: 0 (A) 0 (B)
6.				
7.	0			Prevalence Index = B/A = 0.000
8.	0			Hydrophytic Vegetation Indicators:
9.	0			☐ Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cover:  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 <sup>1</sup> (Explain)
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3	0			be present, unless disturbed or problematic.
4				Plot size (radius, or length x width)
5	•			% Cover of Wetland Bryophytes
6	•			(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9				
10Total Cover:	: 0			Hydrophytic Vegetation
				Present? Yes • No

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SOIL Sampling Point: SW13\_T123\_04 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 Gleyed Without Hue 5Y or Redder 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 ○

**Hydric Soil Present?** 

Type:

Remarks:

Depth (inches):

substrate comprised of subangular cobbles (>3 inches). active channel, assume hydric soils.

HYDROLOGY						
Wetland Hydrology Indica	tors:			Secondary Indicators (two or more are required)		
Primary Indicators (any one is	s sufficient)			Water Stained Leaves (B9)		
✓ Surface Water (A1)			✓ Inundation Visible on Aerial Image	ery (B7)		
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): 12			
Water Table Present?	Yes 🔾	No 💿	Depth (inches):	Wetland Hydrology Present? Yes ● No ○		
Saturation Present? (includes capillary fringe)	Yes $\bigcirc$	No •	Depth (inches):			
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:						
Remarks:						

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