## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 31-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T155_03
Investigator(s): WAD, RWM		Landform (hi	lside, terrac	ce, hummocks etc.): depressions
Local relief (concave, convex, none): concave		Slope:		4 ° Elevation: 114
Subregion : Interior Alaska Mountains	Lat.:	63.20068834	_	Long.: -148.438908039 Datum: NAD83
Soil Map Unit Name:	,			NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this	time of yea	r? Yes	● No ○	
Are Vegetation , Soil , or Hydrology				Normal Circumstances" present?
Are Vegetation ✓ , Soil ✓ , or Hydrology □	-	-		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho		npling poin	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes  No		Is	the Sam	npled Area
Hydric Soil Present? Yes   No			ithin a W	
Wetland Hydrology Present? Yes No	)	•	a vv	Totalia i
Remarks: small tarn on bench above mountain stream.				
A/FOFTATION				
<b>VEGETATION</b> -Use scientific names of plants. L	ist all sp	ecies in the	plot.	Dominance Test worksheet:
Troe Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species
Tree Stratum  1.			Status	That are OBL, FACW, or FAC:0(A)
2.		. 🗀		Total Number of Dominant
		. Д		Species Across All Strata: 0 (B)
3. 4.				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species 0 x 1 = 0
1	0			FACW Species 0 x 2 = 0
2.		_		FAC Species
3.				FACU Species 0 x 4 = 0
4.	0			UPL Species <u>0</u> x 5 = <u>0</u>
5	0			Column Totals:0 (A)0 (B)
6	0	. 📙		Prevalence Index = B/A = 0.000
7	0			1 Tevalence muex – B/A –
8				Hydrophytic Vegetation Indicators:
9.				☐ Dominance Test is > 50%
10Total Cove		. 🗀		☐ Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:			r: 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1				✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
4.				Plot cize (radius, or length y width)
5.		. 🔲		Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6		. 📃		(Where applicable)
7				% Bare Ground
	0			Total Cover of Bryophytes
8	_	1 1		
9				
9	0			Hydrophytic
9	r: <u>0</u>	of Total Cover	: 0	Hydrophytic Vegetation Present?  Yes  No

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SOIL Sampling Point: SW13\_T155\_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: **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: unvegetated pond, 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): 5 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: Remarks: uniformly shallow

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