## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 19-Aug-15
Applicant/Owner: Alaska Energy Authority			-	Sampling Point: SW15_T327_10
nvestigator(s): GVF		Landform (hills	side, terrac	ce, hummocks etc.): Gulch or Gully
Local relief (concave, convex, none): concave				0 ° Elevation:
	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:	_			NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this time of Are Vegetation □ , Soil □ , or Hydrology □ sign Are Vegetation ☑ , Soil ☑ , or Hydrology □ natu	ificantly	y disturbed?	Are "N	
SUMMARY OF FINDINGS - Attach site map showing	g sam	npling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○				
Hydric Soil Present? Yes ● No ○		Is	the Sam	npled Area
Wetland Hydrology Present? Yes   No		wi	thin a W	/etland? Yes ● No ○
Remarks: small headwater creek below dense alders				
VEGETATION - Use scientific names of plants. List a	all spe	cies in the <sub>l</sub>	olot.	Dominance Test worksheet:
	solute Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1	COVE		Status	That are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
	—			Species Across All Strata: 0 (B)
4.				Percent of dominant Species That Are OBL, FACW, or FAC:
5.				Prevalence Index worksheet:
Total Cover:	0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0	_ 20%	of Total Cover:	0	OBL Species x 1 =
1				FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.				FACU Species 0 x 4 = 0
4				UPL Species <u>0</u> x 5 = <u>0</u>
5				Column Totals:0 (A)0 (B)
6				Prevalence Index = B/A = 0.000
7				Trevalence 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:0	0 20%	of Total Cover	0	Morphological Adaptations (Plovide 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	0			Plot size (radius, or length x width) <u>1x5m</u>
5.	0			% Cover of Wetland Bryophytes
6	0			(Where applicable)
7	0			% Bare Ground 95
8	0			Total Cover of Bryophytes
9. 10.	0			Hydrophytic
Total Cover:	0	_		Vegetation
-		of Total Cover:	0	Present? Yes • No O
50% of Total Cover:0	_ 2070	or rotal cover.		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15\_T327\_10 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: assume hydric soils in creekbed. **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): 3 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe)

U.S. Army Corps of Engineers Alaska Version 2.0

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks: creek