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_06
Investigator(s): WAD, RWM		Landform (nillside, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:		5 ° Elevation: 110
Subregion: Interior Alaska Mountains	Lat ·	63.2072203		Long.: -148.434900722 Datum: NAD83
Soil Map Unit Name:		00.2072200	77 00	NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this	time of year	ur2 V6	as (No (
Are Vegetation , Soil , or Hydrology				Normal Circumstances" present? Yes No No
Are Vegetation ✓ , Soil ✓ , or Hydrology □	-	-		eded, explain any answers in Remarks.)
			·	
SUMMARY OF FINDINGS - Attach site map sho		mpling poi	nt locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No			a tha Cam	npled Area
Hydric Soil Present? Yes ● No	\supset			
Wetland Hydrology Present? Yes ● No		ļ ,	within a W	- Charla I
Remarks: permanently flooded upper perennial stream, sin	ngle channe	el 20ft wide.	substrate bou	ulders.
VEGETATION - Use scientific names of plants. I	List all sp	ecies in th	e plot.	
	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum	% Cove			Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
1.	0			Total Number of Dominant
2	_ 0			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		_		Prevalence Index worksheet:
Total Cove		-		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cov	er: <u>0</u>	OBL Species x 1 =
1	0			FACW Species
2	0			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.				Prevalence Index = B/A = 0.000
7	0	-		
9.	0	-		Hydrophytic Vegetation Indicators: Dominance Test is > 50%
		-		Prevalence Index is ≤3.0
Total Cove		_		Morphological Adaptations (Provide supporting data in
Herb Stratum 50% of Total Cover:			/er: 0	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) 10m
5				% Cover of Wetland Bryophytes
6		-		(Where applicable)
	0	- 📙		% Bare Ground
7		1 1		Total Cover of Bryophytes
7. 8.	0	-		Total Cover of Dryophytes
7. 8. 9.	0			
7. 8. 9. 10.	0 0			Hydrophytic
7. 8. 9.	0 0 0	-	er: 0	

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SOIL Sampling Point: SW13_T155_06 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: **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) ³ 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) 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: fluvaquent soils. **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): 8 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:

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Remarks: