WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 07-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T178_03
Investigator(s): BAB		Landform (hillside, terrace, hummocks etc.): Pond		
Local relief (concave, convex, none): concave		Slope: 0.0	% / 0.0) ° Elevation: 1122
Subregion : Interior Alaska Mountains	Lat.: 6	 33.054938436	 3	Long.: -148.310244918 Datum: WGS84
Soil Map Unit Name:	_			NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this t	ime of vear?	? Yes	● No ○	
		disturbed?		Normal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology	-			eded, explain any answers in Remarks.)
			•	
SUMMARY OF FINDINGS - Attach site map sho		ping point	locations	s, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No		ls	the Sam	pled Area
Hydric Soil Present? Yes No			ithin a W	-
Wetland Hydrology Present? Yes No)			
Remarks: several depressions with the same substrate in what appears to be a lateral morraine. water level about 2 feet below high water	a line along	this elevatio	n. This one	e is the only one currently inundated. They are uphill of
VEGETATION - Use scientific names of plants. L	ist all spe	cies in the	plot.	
·	Absolute	Dominant	Tudiantas	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC:
2	0			Species Across All Strata: 0 (B)
3	0			Percent of dominant Species
4				That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				Prevalence Index worksheet:
Total Cover		of Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 0 x 1 = 0
1	0			FACW Species 0 x 2 = 0
2				FACUS paging 2 x 3 = 0
3.	_			FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0
4				
56.				Column Totals: 0 (A) 0 (B)
_	•			Prevalence Index = B/A = 2.000
7	0			Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover	r: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation ¹ (Explain)
2	0			¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4.				Plot size (radius, or length x width)
5	•			% Cover of Wetland Bryophytes
6				(Where applicable)
7. 8.				% Bare Ground
9.				Total Cover of Bryophytes
10.	0			Hydrophytic
Total Cover	: 0			Vegetation
i e		of Total Cover:	: 0	Present? Yes • No O

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SOIL Sampling Point: SW13_T178_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 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: 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) ✓ Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) 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 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: U.S. Army Corps of Engineers Alaska Version 2.0

Depth (inches): 48

Yes ● No ○

Surface Water Present?