WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	xa-Susitna Borough Sampling Date: 08-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T128_02
nvestigator(s): JER	L	andform (hills	side, terrac	ce, hummocks etc.): lake
Local relief (concave, convex, none): none		Slope: 0.0	% / 0.0	° Elevation: 1034
Subregion: Southcentral Alaska	 Lat.: 6:	 2.943321109		Long.: -148.866926908 Datum: wgs84
Soil Map Unit Name:				NWI classification: PUBH
Are Vegetation , Soil , or Hydrology				
Are Vegetation ✓ , Soil ✓ , or Hydrology	-			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing samp	oling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	\supset	la	the Com	wled Avec
Hydric Soil Present? Yes ● No	\supset			pled Area letland? Yes ● No ○
Wetland Hydrology Present? Yes No	\supset	WI	thin a W	etland? Tes © No C
Remarks: alpine lake, rocky bottom, shallow <4 ft. /EGETATION - Use scientific names of plants. I	ist all spec	cies in the	<u>"</u>	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
1	0			That are OBL, FACW, or FAC:0(A) Total Number of Dominant
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 Cove		of Total Causes		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:		ii Total Cover:	0	OBL Species 0 x1 = 0
1	0			FACW Species 0 x 2 = 0
2				FACILIST ON X 3 = 0
3.				FACU Species $0 \times 4 = 0$ UPL Species $0 \times 5 = 0$
4.				
5.				Column Totals: 0 (A) 0 (B)
6	^			Prevalence Index = B/A =
7.				Hudrophytic Vocatation Indicators
8. 9.				Hydrophytic Vegetation Indicators: Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Total Cove Herb Stratum 50% of Total Cover:		of Total Cover	: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1				✓ Problematic Hydrophytic Vegetation ¹ (Explain)
2.				Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
4.				Diet size (radius, or length y width)
5.				Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9				
10				Hydrophytic
				VOGOTATION
Total Cover 50% of Total Cover:		of Total Cover:	0	Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW13_T128_02 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:³ **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) 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) ³ 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) 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: unvegetated pond, assume hydric soil

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Wetland Hydrology Indica	ators:		Secondary Indicators (two or more are required)
Primary Indicators (any one	is sufficient)		Water Stained Leaves (B9)
✓ Surface Water (A1)		Inundation Visible on Aerial Imag	ngery (B7) Drainage Patterns (B10)
High Water Table (A2)		Sparsely Vegetated Concave Surfa	rface (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 ○	Depth (inches): 48	
Water Table Present?	Yes ○ No •	Depth (inches): 0	Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)	Yes O No 💿	Depth (inches): 0	
Describe Recorded Data (stre	eam gauge, monitor w	ell, aerial photos, previous inspection) if a	available:
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Remarks:			
perm flooded lake, roky botto	om		
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