WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:01-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_02
nvestigator(s): WAD, RWM		Landform (hil	lside, terrac	e, hummocks etc.): depression
Local relief (concave, convex, none): concave		Slope:		7 ° Elevation: 109
Subregion : Interior Alaska Mountains	Lat.:	63.22102570		Long.: -148.214855075 Datum: NAD83
Soil Map Unit Name:		00.22.020.0		NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this tim	e of vea	r? Yes	● No ○	
Are Vegetation . Soil . , or Hydrology . si				lormal Circumstances" present? Yes ● No ○
Are Vegetation ☐ , Soil ☑ , or Hydrology ☐ na	-	-		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sar	npling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area
Hydric Soil Present? Yes No			ithin a W	
Wetland Hydrology Present? Yes No	.			Ottalia i
Remarks: miniature pond with sparse floating aquatic vegeta outlet. isolated?	tion. mu	aay tringe inai	cates water	level fluctuates. no evidence of surface water inlet or
outien isolatea.				
VEGETATION - Use scientific names of plants. List	t all sp	<u>ecies in the</u>	plot.	
	Absolute			Dominance Test worksheet:
1	% Cove	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
	0			Total Number of Dominant
2	0			Species Across All Strata: (B)
				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		- П		
Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	20%	- 6 of Total Cover	: 0	OBL Species _ 7 _ x1 = _ 7
				FACW Species 5 x 2 = 10
1		-		FAC Species 2 x 3 = 6
	0	-		FACU Species 0 x 4 = 0
3. 4.	0			UPL Species 0 x 5 = 0
5.	0			Column Totals: 14 (A) 23 (B)
6.	0			
7.	0			Prevalence Index = B/A = 1.643
8.	0			Hydrophytic Vegetation Indicators:
9	0	. 🔲		✓ Dominance Test is > 50%
10	0	. \square		Prevalence Index is ≤3.0
Total Cover:	0	-	0	Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover:		% of Total Cove		Remarks or on a separate sheet)
Sparganium hyperboreum	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex saxatilis 3 Equisetum arvense	<u>5</u>	. 🖊	FACW FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Community and an	- 2		OBL	
	-			Plot size (radius, or length x width) <u>10m</u>
				% Cover of Wetland Bryophytes (Where applicable)
	0			, app
6	0			% Bare Ground
6	0 0			
6 7 8	0 0 0			
6	0 0 0 0			
6	14			Total Cover of Bryophytes

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SOIL Sampling Point: SW13_T143_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:** 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) ✓ 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): 6 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): 0

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Depth (inches): 0

Saturation Present?

Remarks:

(includes capillary fringe)

see main remarks on connectivity

Yes ○ No ●

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