WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T142_09
nvestigator(s): WAD, RWM		Landform (hill	side, terrac	e, hummocks etc.): Channel (abandoned)
Local relief (concave, convex, none): concave				° Elevation: 1194
Subregion : Interior Alaska Mountains	Lat.:	63.095838904		Long.: -148.294924021 Datum: WGS84
Soil Map Unit Name:		00.0000000		NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this t	imo of voa	r2 Vas	● No ○	
Are Vegetation , Soil , or Hydrology	significant	ly disturbed?	Are "N	lormal Circumstances" present? Yes No O
SUMMARY OF FINDINGS - Attach site map sho			·	
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes ● No				pled Area
Wetland Hydrology Present? Yes ■ No ○		wi	thin a W	etland? Yes No
Remarks:				
Remarks.				
/EGETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.	
				Dominance Test worksheet:
Tree Stratum	Absolute % Cover		Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC: (A)
2.	0			Total Number of Dominant Species Across All Strata: 1 (B)
3.				Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover	: <u> </u>			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species x 1 =1
1	0			FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.				FACU Species <u>0</u> x 4 = <u>0</u>
4.				UPL Species0 x 5 =0
5				Column Totals:1 (A)1 (B)
6	0	. 📙		
7	0			Prevalence Index = B/A =1.000_
8	0	. 📙		Hydrophytic Vegetation Indicators:
9	0_	. 📙		✓ Dominance Test is > 50%
10.	0	. 🗀		✓ Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		_ % of Total Cover	: 0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Carex aquatilis	1	✓	OBL	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.		. 🔲		Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6	0	. 📙		(Where applicable)
7				% Bare Ground
8		. 📙		Total Cover of Bryophytes
9				
10.	0	. \square		Hydrophytic
Total Cover	: <u>1</u>			Vegetation
Total Cover 50% of Total Cover:	0.5 20%	6 of Total Cover:	0.2	Present? Yes • No •

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SOIL Sampling Point: SW13_T142_09 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: active channel, 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): 24 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches):

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Depth (inches):

Saturation Present?

Remarks:

(includes capillary fringe)

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Yes ○ No ●

perm flooded lower perennial stream, coarse sand substrate, incised banks.

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