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		Slope:	% / 1.0	-
Subregion : Interior Alaska Mountains	l at ·	63.095838904		Long.: -148.29492402 Datum: NAD83
Soil Map Unit Name:	Lut	03.093030904	· ··	
· -		2	No ○	NWI classification: R2UBH
SUMMARY OF FINDINGS - Attach site map sho	significant naturally p wing sar	ly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ sided, explain any answers in Remarks.) s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	_	le	the Sam	pled Area
Hydric Soil Present? Yes No)		thin a W	- 0 0
Wetland Hydrology Present? Yes No Remarks:)	WI	uiiii a vv	etianu ? Tes e no e
/EGETATION - Use scientific names of plants. L	ist all sp	,	•	Dominance Test worksheet:
Tree Stratum	% Cover		Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC:0 (A)
2.	0			Total Number of Dominant Species Across All Strata: (B)
3.	^			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cove	r: <u>0</u>	-		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover:	0	OBL Species 1 x 1 = 1
1.	0			FACW Species 0 x 2 = 0
		-		FAC Species 0 x 3 = 0
		-		FACU Species 0 x 4 = 0
3. 4.		-		UPL Species 0 x 5 = 0
5.		-		
6.			-	Column Totals:1 (A)1 (B)
7.		-		Prevalence Index = B/A = 1.000
8	0	-		Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10.	0			✓ 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)
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	0	_ 🖳		Plot size (radius, or length x width)
5	0	. 📙		% Cover of Wetland Bryophytes
6	0	. 📙		(Where applicable)
7	0	. 📙		% Bare Ground
8		- 📙		Total Cover of Bryophytes
9		- 📙		
1.0	0	_		Hydrophytic
10				
Total Cover 50% of Total Cover:	-	-	0.2	Vegetation 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: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: 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

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Depth (inches):

Depth (inches):

Yes ● No ○

Wetland Hydrology Present?

Yes O No •

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:

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks: