WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 07-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T178_09
Investigator(s): BAB	I	Landform (hills	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope: 3.5	% / 2.0	O ° Elevation: 950
Subregion : Interior Alaska Mountains	 Lat.: 6	 33.050200582		Long.: -148.331363201 Datum: WGS84
Soil Map Unit Name:	_			NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this to	significantly	disturbed?	No O Are "N	
Are Vegetation \square , Soil \square , or Hydrology \square	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No				ipled Area
Wetland Hydrology Present? Yes ● No C		wi	thin a W	/etland? Yes ● No ○
Remarks:				
Terraino.				
VEGETATION -Use scientific names of plants. L	ist all spe	cies in the p	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
1.				Total Number of Dominant
2	0			Species Across All Strata: 0 (B)
3	0			Percent of dominant Species
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5	0			Prevalence Index worksheet:
Total Cover				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species0 x 1 =0
1	0			FACW Species 0 x 2 = 0
2.				FAC Species
3				FACU Species0 x 4 =0
4				UPL Species <u>0</u> x 5 = <u>0</u>
5				Column Totals: 0 (A) 0 (B)
6				Prevalence Index = B/A = 0.000
7				
8.				Hydrophytic Vegetation Indicators:
9.				☐ Dominance Test is > 50%
10Total Cover				Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:		of Total Cover	:0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ 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) 10m
5				% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8.				Total Cover of Bryophytes
9	- 0			
10		Ш		Hydrophytic
	• ^			
Total Cover 50% of Total Cover:		of Total Cover:	0	Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW13_T178_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) ✓ 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 ● No ○ Surface Water Present? Depth (inches): 18 Yes ● 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:

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Remarks: