## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T190_06
nvestigator(s): JGK		Landform (hill	side, terrac	e, hummocks etc.): Bench
Local relief (concave, convex, none): flat		Slope: 0.0	% / 0.0	° Elevation: 889
Subregion : Interior Alaska Mountains	Lat.: 6	62.954261661		Long.: -148.24748981 Datum: WGS84
Soil Map Unit Name:		52.504201001		NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this til	mo of voor	yes	● No ○	(If no, explain in Remarks.)
Are Vegetation . , Soil . , or Hydrology . s	significantly	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes  No O
Hydrophytic Vegetation Present? Yes   No	)		41 0	ulad Ausa
Hydric Soil Present? Yes ● No C	)			pled Area etland? Yes ◉ No ◯
Wetland Hydrology Present? Yes ● No C	)	WI	thin a W	etiand? Tes S NO C
Remarks: Bufflehead feediing in pond.				
Jameneda resaming in perial				
/EGETATION -Use scientific names of plants. Li	st all spe	cies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:  (A)
1				Total Number of Dominant
2.				Species Across All Strata: (B)
3.				Percent of dominant Species
4.       5.				That Are OBL, FACW, or FAC: 0.0% (A/B)
Total Cover:				Prevalence Index worksheet:
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
Sapinity Stratum Screen				OBL Species 0 x1 = 0 FACW Species 0 x2 = 0
1.				
2.				FAC Species 0 x 3 = 0 FACU Species 0 x 4 = 0
3				UPL Species 0 x 5 = 0
5			-	Column Totals:0 (A)0 (B)
7.	0			Prevalence Index = B/A =0.000_
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 <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3	_			be present, unless disturbed or problematic.
4				Plot size (radius, or length x width)5m x 10m
5	_			% Cover of Wetland Bryophytes
				(Where applicable)
				% Bare Ground
				Total Cover of Bryophytes
				Vegetation
50% of Total Cover:		of Total Cover:	0	Present? Yes • No O
6	0 0 0 0 0 0 0			(Where applicable)  % Bare Ground  Total Cover of Bryophytes  Hydrophytic Vecetation

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SOIL Sampling Point: SW13\_T190\_06 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 <sup>1</sup> <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix <sup>2</sup> 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) <sup>3</sup> 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) <sup>4</sup> 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): 12 Yes O 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:

Water depth estimated at 1-5 ft