## WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	B	sorough/City:	Matanusk	xa-Susitna Borough Sampling Date: 27-Aug-15
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T351_04
nvestigator(s): SLI, SCB		Landform (hills	side, terrac	ce, hummocks etc.): Channel (active)
ocal relief (concave, convex, none):concave		Slope: 10.5	% / 6.0	D ° Elevation:
ubregion: Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
oil Map Unit Name:	_			NWI classification: R3UBH
re climatic/hydrologic conditions on the site typical for this to Are Vegetation , Soil , or Hydrology  Are Vegetation , Soil , or Hydrology  UMMARY OF FINDINGS - Attach site map sho	significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
		ipinig ponit	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes  No		le	the Sam	npled Area
Hydric Soil Present? Yes No	_			/etland? Yes  No
Wetland Hydrology Present? Yes   No	)	WI	uiiii a vv	retiality: 165 o No o
	nappable) f . no underci	floodplain with ut banks obser	calcan and ved.	to boulders. approx 4ft wide, total depth 2 ft, water depth d salpul, and sediment deposits over an inch deep. some
	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: 0 (B)
3				Percent of dominant Species
4.				That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				Prevalence Index worksheet:
Total Cove		(		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =
1				FACW Species 0 x 2 = 0
2				FAC Species x 3 =
3				FACU Species 0 x 4 = 0
4				UPL Species 0 x 5 = 0
5				Column Totals:0 (A)0 (B)
6				Prevalence Index = B/A = 0.000
7				
8				Hydrophytic Vegetation Indicators:
9				Dominance Test is > 50%
Total Cove Herb Stratum 50% of Total Cover:		└─ 6 of Total Cover	: 0	<ul> <li>Prevalence Index is ≤3.0</li> <li>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
1	0			✓ Problematic Hydrophytic Vegetation (Explain)
2.				Indicators of hydric soil and wetland hydrology must
3.				be present, unless disturbed or problematic.
4.				Note that a facility of the second
5.				Plot size (radius, or length x width) 1x5m
6.				% Cover of Wetland Bryophytes (Where applicable)
7.				% Bare Ground
				Total Cover of Bryophytes
8				
8. 9. 10.	0			Hydrophytic
9.	- 0 0 0		0	Hydrophytic Vegetation Present?  Yes  No

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SOIL Sampling Point: SW15\_T351\_04 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: active channel, hydric soils assumed **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: Remarks:

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active channel