## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydro	pelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15
pplicant/Owner: Alaska Energy Au	ıthority				Sampling Point: SW15_T328_03
vestigator(s): SLI, TXC			Landform (hill	side, terrac	e, hummocks etc.): Lake
ocal relief (concave, convex, none):	concave		Slope: 0.0	% / 0.0	° Elevation:
bregion: Cook Inlet Mountains		Lat.:			Long.: Datum: WGS84
il Map Unit Name:		-			NWI classification: PUBH
e climatic/hydrologic conditions on t	he site typical for this tir	me of vear	? Yes	No ○	(If no, explain in Remarks.)
Are Vegetation ☐ , Soil ☐  Are Vegetation ☑ , Soil ☑	, or Hydrology $\square$ s	significantly naturally pr	y disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
Hydrophytic Vegetation Preser	nt? Yes 💿 No 🔾	)			
Hydric Soil Fleserit?					pled Area
Wetland Hydrology Present?	Yes ● No ○	)	W	ithin a W	/etland? Yes ⊙ No ○
emarks: Alpine lake with inlet and	outlet. narrow lac fringe	wetlands	near inlets/ou	tlets.	
EGETATION - Use scientific I	names of plants. Lis	st all spe	ecies in the	plot.	Dominance Test worksheet:
Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	i	70 COVEL		Status	That are OBL, FACW, or FAC:0 (A)
2.					Total Number of Dominant Species Across All Strata: 0 (B)
3					Species Across All Strata:  O (B)  Percent of dominant Species
1					That Are OBL, FACW, or FAC: 0.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0
1					FACW Species 0 x 2 = 0
2.		-			FAC Species x 3 =
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					
7					Prevalence Index = B/A =0.000_
8					Hydrophytic Vegetation Indicators:
9.					☐ Dominance Test is > 50%
10					☐ Prevalence Index is ≤3.0
Herb Stratum	<b>Total Cover:</b> 50% of Total Cover:	0 20%	6 of Total Cover	:0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.					Problematic Hydrophytic Vegetation (Explain)
2.		_			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3					De present, amese distance or president
4 5					Plot size (radius, or length x width)
6					% Cover of Wetland Bryophytes (Where applicable)
7.					% Bare Ground
8.					Total Cover of Bryophytes 0
9.		_			<u> </u>
		0			Hydrophytic
10					
10	<b>Total Cover:</b> 50% of Total Cover:				Vegetation Present?  Yes  No

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SOIL Sampling Point: SW15\_T328\_03 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: innundated, 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): 36 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: estimated depth of lacustrine pond at least 2m.

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