WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Pro	oject	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Aug-15
pplicant/Owner: Alaska Energy Authority					Sampling Point: SW15_T301_06
vestigator(s): SLI, ATH			`		ee, hummocks etc.):
ocal relief (concave, convex, none):concave			Slope: 0.0	% /0.0	Elevation:
ubregion : Interior Alaska Mountains		Lat.:			Long.: Datum: WGS84
oil Map Unit Name:					NWI classification: PUBH
e climatic/hydrologic conditions on the site typic Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic UMMARY OF FINDINGS - Attach site	ogy	ignificantly naturally pro ving sam	disturbed?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes			1-	4h a Caus	valed Avec
Hydric Soil Present? Yes					ıpled Area /etland? Yes ◉ No ◯
Wetland Hydrology Present? Yes	● No ○		WI	tnin a w	etland? Yes ♥ No ∪
EGETATION - Use scientific names of					from adjacent hillside. Game trail(s) leading to pond.
Tue o Shunkuun		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
Tree Stratum 1.		0		Status	That are OBL, FACW, or FAC:1(A)
2.					Total Number of Dominant
2		_			Species Across All Strata: 1 (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			December 2 Andrews and a best
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total	Cover:	0 20%	of Total Cover:	0	OBL Species 5.1 x 1 = 5.1
4		0			FACW Species 0 x 2 = 0
1 2.					FAC Species 0 x 3 = 0
_					FACU Species 0 x 4 = 0
1		0			UPL Species 0 x 5 = 0
5.		0			Column Totals: <u>5.1</u> (A) <u>5.1</u> (B)
6.		0			
7.		0			Prevalence Index = B/A = 1.000
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
	Total Cover:		of Total Cover	0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Nuphar polysepala		5	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
Utricularia minor		0.1		OBL	¹ Indicators of hydric soil and wetland hydrology must
3		0			be present, unless disturbed or problematic.
4		0			Plot size (radius, or length x width)
5		_			% Cover of Wetland Bryophytes
0					(Where applicable)
6		0			% Bare Ground
7					
7. 8.					Total Cover of Bryophytes
7. 8. 9.		0			
7. 8. 9.		0 0			Hydrophytic
7	Total Cover:	0 0 0 5.1	of Total Cover:	1 02	

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SOIL Sampling Point: SW15_T301_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 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: Inundated, assumed 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:

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Remarks: Estimated depth.