WETLAND DETERMINATION DATA FORM - Alaska Region

oject/Site: Susitna-Watana Hydroelectric Project	Bo	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-13
plicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T100_02
vestigator(s): BAB	L	andform (hill	side, terrac	e, hummocks etc.): Shoreline
cal relief (concave, convex, none): concave		Slope: 0.0	% / 0.0	° Elevation: 781
bregion : Copper River Basin	Lat: 6	2.621701341	1	Long.: -147.405359522 Datum: WGS84
il Map Unit Name:		2.0217010+1		NWI classification: PEM1E
e climatic/hydrologic conditions on the site typical for this tim		Voo	● No ○	(If no, explain in Remarks.)
re Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 si	gnificantly aturally pro	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes No O
Hydrophytic Vegetation Present? Yes ● No ○				
Hydric Soil Present? Yes ● No ○	the Sam	pled Area		
Wetland Hydrology Present? Yes ● No ○	thin a W	etland? Yes No		
, ,,				
Remarks: mostly floating mat EGETATION -Use scientific names of plants. Lis	t all spec	cies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.	0			Total Number of Dominant
2	0			Species Across All Strata: 4 (B)
3	0			Percent of dominant Species
4.				That Are OBL, FACW, or FAC: 100.0% (A/B)
5				Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:) 20% (of Total Cover:	0	OBL Species <u>41.1</u> x 1 = <u>41.1</u>
Chamaedaphne calyculata	1	✓	FACW	FACW Species 2 x 2 = 4
Andromeda polifolia(CRP)	_1_	✓	OBL	FAC Species
3	0			FACU Species 0 x 4 = 0
4	0			UPL Species <u>0</u> x 5 = <u>0</u>
5				Column Totals: <u>43.1</u> (A) <u>45.1</u> (B)
6				Prevalence Index = B/A =1.046_
7				
8				Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10Total Cover:	2			✓ Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:		of Total Cover	: 0.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Menyanthes trifoliata	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
Eriophorum scheuchzeri	5		OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Comarum palustre	1		OBL	be present, unless disturbed or problematic.
4. Trichophorum caespitosum	0.1		OBL	District (and its or as leastly so width)
5. Eriophorum vaginatum	1		FACW	Plot size (radius, or length x width)
6. Carex aquatilis	4		OBL	(Where applicable)
7. Carex limosa	15	✓	OBL	% Bare Ground
8. Carex rotundata	10	✓	OBL	Total Cover of Bryophytes
9				
10				Hydrophytic
	41.1			Vegetation
Total Cover: 50% of Total Cover:2 <u>0</u> .		of Total Carra	0.33	Present? Yes • No O

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SOIL Sampling Point: SW13_T100_02 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:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **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 Gleyed (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: H2S odor when walking through community.

HYDROLOGY					
Wetland Hydrology Indica	tors:				Secondary Indicators (two or more are required)
_Primary Indicators (any one is sufficient)					☐ Water Stained Leaves (B9)
☐ Surface Water (A1)			Inundation Visible on Aerial Image	ery (B7)	Drainage Patterns (B10)
✓ High Water Table (A2)			Sparsely Vegetated Concave Surfa	ace (B8)	Oxidized Rhizospheres along Living Roots (C3)
✓ Saturation (A3)			Marl Deposits (B15)		Presence of Reduced Iron (C4)
☐ Water Marks (B1)			✓ Hydrogen Sulfide Odor (C1)		Salt Deposits (C5)
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:					
Surface Water Present?	Yes 🔾	No 💿	Depth (inches):		
Water Table Present?	Yes 💿	No \bigcirc	Depth (inches): 0	Wetland Hyd	Irology Present? Yes No
Saturation Present? (includes capillary fringe)	Yes 💿 I	No O	Depth (inches): 0		
Describe Recorded Data (stre	am gauge, mo	onitor well	, aerial photos, previous inspection) if av	/ailable:	
Remarks:					

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