WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Jun-12
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T20_03
	gator(s): SLI, LMF		Landform (hill	side, terrac	e, hummocks etc.): Flat
Local r	elief (concave, convex, none): none		Slope:	%/ 0.4	¹ ° Elevation: 567
	jion : Southcentral Alaska	lat: 4	62.725768189		Long.: -148.822825788 Datum: NAD83
-			52.725700108		
	ip Unit Name:			• No ()	NWI classification: PEM1E
Are V Are V	regetation , Soil , or Hydrology r MARY OF FINDINGS - Attach site map show	significantly naturally pro wing sam	v disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
			ls	the Sam	ipled Area
	Hydric Soil Present? Yes			thin a W	
D	Wetland Hydrology Present? Yes No C				inity at substantial (5-10ft) rise in elevation to open picmar
VEGE	forest. ETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.	Pourieuro Technologia
_		Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species
1.	e Stratum	<u>% Cover</u>	Species?	Status	That are OBL, FACW, or FAC:(A)
2.					Total Number of Dominant
3.					Species Across All Strata: (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.		0			
0.	Total Cover:				Prevalence Index worksheet:
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
Jap		0 20/0			OBL Species $50 \times 1 = 50$
1.	Picea mariana	0.1		FACW	FACW Species $2 \times 2 = 4$
2.	Betula nana	0.1		FAC	FAC Species $0 \times 3 = 0$
3.	Vaccinium uliginosum	0.1		FAC	FACU Species $0 \times 4 = 0$
4.	Andromeda polifolia	0.1		FACW	UPL Species x 5 =
	Empetrum nigrum	0.1		FAC	Column Totals: <u>52</u> (A) <u>54</u> (B)
6.					Prevalence Index = B/A =1.038_
7.		0			
8.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
9.		0			
10.	Total Cover:				✓ Prevalence Index is ≤ 3.0
Her	b Stratum 50% of Total Cover:	010	of Total Cover	: 0.1	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Drosera rotundifolia	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis	2		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Trichophorum caespitosum	40		OBL	be present, unless disturbed or problematic.
4.	Rubus chamaemorus			FACW	Plot size (radius, or length x width) <u>10m</u>
5.	Carex rariflora	3		OBL	% Cover of Wetland Bryophytes
6.					(Where applicable)
					% Bare Ground <u>10</u>
					Total Cover of Bryophytes
		0			
10.	Total Cover:				Hydrophytic Vegetation
			of Total Cover:	10.4	Present? Yes I No
Dor					<u>'</u>
Reit	arks: floating sphagnum mat with what feels like a c	i ypropio cr	ust. Listed shi	uus are tra	

SOIL

Depth (inches) Color (moi	1atrix	Re	dox Features	f indicators)		
	st) %	Color (moist)	% Тур	e ¹ <u>Loc</u> ²	Texture	Remarks
0-16	100				Hemic Organics	
·		·			p	
		·				P
						-
·					P	
·		·				
<u> </u>		·				
¹ Type: C=Concentration. D=	Depletion. RM=Re			-	nnel. M=Matrix	
Hydric Soil Indicators:		Indicators for P	roblematic Hyd	ric Soils: ³		
✓ Histosol or Histel (A1)		🗌 Alaska Color C	hange (TA4) ⁴		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (A2)		Alaska Alpine	swales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox	With 2.5Y Hue		Other (Explain in Remar	ks)
Thick Dark Surface (A12)						
Alaska Gleyed (A13)			f hydrophytic veg Ite landscape posi		nary indicator of wetland	nydrology,
Alaska Redox (A14)				·	sent	
Alaska Gleyed Pores (A15		⁴ Give details of c	color change in Re	emarks		
Restrictive Layer (if present):						
Type:					Hydric Soil Present	:? Yes 🖲 No 🔿
Depth (inches):					Nyune Son Fresent	
Remarks:				1		
				_		
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicat					Secondary Ind	icators (two or more are required)
						icators (two or more are required) ined Leaves (B9)
Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1)		Inundation \	Visible on Aerial Ir	nagery (B7)	Water Sta	
Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2)			Visible on Aerial Ir getated Concave S		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3)		Sparsely Veg	getated Concave S ts (B15)		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2)		Sparsely Veg	getated Concave S ts (B15)		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
Wetland Hydrology Indicat Primary Indicators (any one is ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Sparsely Veg	getated Concave S ts (B15)	Surface (B8)	Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
Wetland Hydrology Indicat Primary Indicators (any one is ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Sparsely Veg Marl Deposit Hydrogen Su	getated Concave S ts (B15) ulfide Odor (C1)	Surface (B8)	Water Stal	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) ic Position (D2)
Wetland Hydrology Indicat Primary Indicators (any one is ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Sparsely Veg Marl Deposit Hydrogen Su	getated Concave S ts (B15) ulfide Odor (C1) Water Table (C2)	Surface (B8)	Water Stal	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3)
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