WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydro	pelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 28-Aug-15			
pplica	int/Owner: Alaska Energy Au	ıthority				Sampling Point: SW15_T333_0			
vesti	gator(s): AFW	,		Landform (hil	form (hillside, terrace, hummocks etc.): Ridgetop				
ocal r	elief (concave, convex, none):	convex		Slope: 8.7	% / 5.0	 			
ihren	ion: Interior Alaska Mountain		Lat.:			Long.: Datum: WGS8			
_	p Unit Name:	<u> </u>	Lutin						
		h : t - t : f t - : - t:	f	-0 Voo	● No ○	NWI classification: Upland			
Are V Are V	natic/hydrologic conditions on t egetation	, or Hydrology S, or Hydrology S	significantl naturally p	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Preser	nt? Yes 🔾 No 🖲							
	Hydric Soil Present?	Yes ○ No •)	Is the Sampled Area					
	Wetland Hydrology Present?	Yes ○ No •)	W	ithin a W	Vetland? Yes ○ No •			
	arks: dry alpine ridge								
EGE	TATION - Use scientific	names of plants. Li	st all spe	ecies in the	plot.	Dominance Test worksheet:			
			Absolute		Indicator	Number of Dominant Species			
1.	e Stratum_		% Cover	Species?	Status	That are OBL, FACW, or FAC:0(A)			
2.					-	Total Number of Dominant			
3.						Species Across All Strata: 4 (B)			
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/I			
5.									
		Total Cover:	:			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:		· 6 of Total Cover	: 0	001.0			
			20	✓		OBL Species x 1 = FACW Species x 2 = 2			
1.	Dryas integrifolia			<u>v</u>	FACU	FAC Species 24 x 3 = 72			
2. 3.	Arctous alpinus		15		FACU	FACU Species 51 x 4 = 204			
3. 4.	Manadali in illialia anima		<u>10</u> 7		FAC FAC	UPL Species 2 x 5 = 10			
т. 5.	Vaccinium vitia idaaa		5		FAC				
6.	Betula nana				FAC	Column Totals: (A)			
7.	Salix arctica		1		FACU	Prevalence Index = B/A = 3.692			
8.			0			Hydrophytic Vegetation Indicators:			
						Dominance Test is > 50%			
			0			Prevalence Index is ≤3.0			
	b Stratum	Total Cover: 50% of Total Cover:		% of Total Cove	r: <u>14</u>	Morphological Adaptations (Provide supporting data Remarks or on a separate sheet)			
1.	Anthoxanthum monticola ssp.	alpinum	5	✓	UPL	Problematic Hydrophytic Vegetation (Explain)			
2.	Festuca brachyphylla		2	✓	UPL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Arctagrostis latifolia		1		FACW	be present, unless disturbed or problematic.			
4.			0			Plot size (radius, or length x width)			
5.			0			% Cover of Wetland Bryophytes			
						(Where applicable)			
						% Bare Ground			
			_			Total Cover of Bryophytes25			
10.						Hydrophytic			
		Total Cover: 50% of Total Cover:			. 16	Vegetation Present? Yes ○ No ●			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T333_06

	: (Describe to the depth needed to docu Matrix			ument the indicator or confirm the absence of indicators) Redox Features									
Depth (inches)	Color (moi	ist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-1			100			-75-		Sapric Organics					
1-6	10YR	3/4	100					Sandy Loam	semirounded fine to coarse gravel and				
6-17	7.5YR	3/3	100					Loamy Sand	semirounded fine to coarse gravel and cobbles				
									-				
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix					
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³													
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4)4		Alaska Gleyed Without H	ue 5Y or Redder				
Histic Epipe	edon (A2)			Alaska Alpine s	•	•		Underlying Layer					
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	lue		Other (Explain in Remar	(S)				
	Surface (A12)			³ One indicator of	hvdrophv	tic vegetatio	n, one prin	nary indicator of wetland h	nydrology,				
Alaska Gley				and an appropriat					,,				
Alaska Red	ox (A14) /ed Pores (A15	3		4 Give details of co	olor chang	e in Remark	S						
Restrictive Laye Type:	r (if present):							Hydric Soil Present	? Yes ○ No •				
Depth (inch	es):							nyunc son Present	r res O NO O				
Remarks: no hydric soil indicators													
no nydric soil indicators													
HYDROLO	GY												
Wetland Hydr		tors:						Secondary Indi	cators (two or more are required)				
Primary Indicat	ors (any one i	s sufficient)							Water Stained Leaves (B9)				
Surface W	ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage I	Patterns (B10)				
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)								hizospheres along Living Roots (C3)				
Saturation				Marl Deposits	s (B15)				of Reduced Iron (C4)				
	Water Marks (B1) Hydrogen Sulfide Odor (C1)								sits (C5)				
	Sediment Deposits (B2) Dry-Season Water Table (C2)								Stunted or Stressed Plants (D1)				
☐ Drift Depo				Other (Explai		☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3)							
	or Crust (B4)												
☐ Iron Depo									graphic Relief (D4) al Test (D5)				
Field Observa	oil Cracks (B6)							FAC-Heutra	il Test (D5)				
Surface Water		Yes O	No •	Depth (inche	·c).								
Water Table P			No •	, ,	•		Wetla	nd Hydrology Presen	it? Yes O No •				
Saturation Pre				Depth (inche	s):		vvetiai	na nyarology Fresen	it: 165 © 140 ©				
(includes capill		Yes \cup	No •	Depth (inche	s):								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
no wetland hydrology indicators													

U.S. Army Corps of Engineers Alaska Version 2.0