WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Aug-15			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T342_01			
nvestigator(s): AFW	lside, terrac	e, hummocks etc.): Hillside					
Local relief (concave, convex, none): convex		Slope: 3.5	% / 2.0	° Elevation:			
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
Soil Map Unit Name:							
· -		0 V	● No ○	NWI classification: Upland			
Are Vegetation , Soil , or Hydrology , or Hydrology , or Hydrology .	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ioded, explain any answers in Remarks.) Ioded, explain any answers in Remarks.)			
Hydrophytic Vegetation Present? Yes No		le	Is the Sampled Area				
Hydric Soil Present? Yes No		within a Wetland? Yes O No •					
Wetland Hydrology Present? Yes O No 🖲)	W	itnin a vv	a wetland? Tes UNO S			
Remarks:							
VEGETATION - Use scientific names of plants. Li	ist all spe	Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.				That are OBL, FACW, or FAC:3(A)			
2.				Total Number of Dominant Species Across All Strata: 6 (B)			
3.							
4.				Percent of dominant Species That Are OBL, FACW, or FAC:			
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			
Dryas integrifolia	20	✓	FACU	FACW Species 5 x 2 = 10			
Empetrum nigrum	8	✓	FAC	FAC Species 21 x 3 = 63			
2 Anstaura plusiaura		<u> </u>	FACU	FACU Species 40 x 4 = 160			
Arctous aipinus Vaccinium uliginosum		~	FAC	UPL Species 3 x 5 = 15			
Loiseleuria procumbens			FACU	Column Totals: 69 (A) 248 (B)			
6. Diapensia lapponica	3		UPL				
7. Vaccinium vitis-idaea	3		FAC	Prevalence Index = B/A = 3.594			
8. Rhododendron tomentosum	3		FACW	Hydrophytic Vegetation Indicators:			
9. Betula nana	3		FAC	☐ Dominance Test is > 50%			
10. Cassiope tetragona	2		FACU	Prevalence Index is ≤3.0			
Total Cover: 50% of Total Cover:	r: <u>12.2</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)					
Anthoxanthum monticola ssp. alpinum	5	✓	UPL	Problematic Hydrophytic Vegetation (Explain)			
Calamagrostis stricta	2	~	FACW	¹ Indicators of hydric soil and wetland hydrology must			
3. Luzula spicata	1		FACU	be present, unless disturbed or problematic.			
4				Plot size (radius, or length x width)			
5	_			% Cover of Wetland Bryophytes			
6				(Where applicable)			
7.				% Bare Ground 80			
8.	_			Total Cover of Bryophytes			
9.							
10				Hydrophytic Vegetation			
Total Cover: 50% of Total Cover:	: 1.6	Present? Yes No •					
				I			
Remarks:							

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SOIL Sampling Point: SW15_T342_01

Profile Description: (Describe to the depth needed to doc Matrix					onfirm the ab		cators)				
Depth (inches)	Color (mois	t)	<u> </u>	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-19	2.5Y	4/3	100			-75-		Sandy Loam	w rnd to semirnd ccobbles and gravel		
								-			
								-			
									-		
					-			•			
-								-			
1 _{Type:} C-Con	contration D=D	enletion [M-Poduco	d Matrix ² Locatio	n: DI – Dore	Lining DC		uppel M-Matrix	-		
		epietion. i	NI-Neuuce					illilei. M-Mauix			
Hydric Soil Ir				Indicators for Problematic Hydric Soils: Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histosol or Histel (A1)						•		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
Histic Epipe				☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)							
	Sulfide (A4)			☐ Alaska Redox	With 2.5Y F	iue		Oulei (Explain in Remain	3)		
	Surface (A12)			³ One indicator of	f hydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	nydrology.		
Alaska Gley				and an appropria					,, a. 6.65,,,		
Alaska Red	, ,			4 Give details of o	color change	in Remark	(S				
☐ Alaska Gley	yed Pores (A15)			GIVE details of t	color change	z III Keman					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies):										
HYDROLO	GY										
	ology Indicato	ors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	sufficient)							ned Leaves (B9)		
Surface W	ater (A1)			Inundation \	Visible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)		
High Wate	er Table (A2)			Sparsely Veg				Oxidized R	hizospheres along Living Roots (C3)		
☐ Saturation	(A3)			Marl Deposit			. ,	Presence of	of Reduced Iron (C4)		
☐ Water Mar	rks (B1)			Hydrogen Si	ulfide Odor	(C1)		☐ Salt Depos	sits (C5)		
Sediment	Deposits (B2)			Dry-Season				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	sits (B3)			Other (Expla	ain in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	itions:	_	_								
Surface Water	Present?	Yes 🔾	No 💿	Depth (inch	es):						
Water Table P	resent?	Yes \bigcirc	No 💿	Depth (inch	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre	sent?	Yes 〇	No •	, ,	•						
(includes capil		Yes \cup	NO S	Depth (inch	es):						
Describe Record	ded Data (strear	n gauge, n	nonitor well	, aerial photos, pre	evious inspe	ction) if ava	ailable:				
Damada											
Remarks:	vology is discus										
no wetland hyd	rology indicators	5									

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