WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 04-Jul-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T137_01			
Investi	gator(s): WAD. BAB		Landform (hillside, terrace, hummocks etc.): Knob					
Local r	relief (concave, convex, none): convex		Slope: 8.7 % / 5.0 ° Elevation: 1100					
	gion : Southcentral Alaska	l at ·	62.825785518		Long.: -148.861096978 Datum: WGS84			
		Lut	02.023703310	<u> </u>				
	p Unit Name:		2 V	No ○	NWI classification: Upland			
Are V	matic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology regetation , Soil , or Hydrology	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No Vegetation Present? Yes No Vegetation Present?		Is	the Sam	npled Area			
			within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No	9						
	photo num 983, 983, photo time 1155 ETATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.				
	· ·	<u> </u>		·	Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cover		Indicator	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:3(A)			
2.					Total Number of Dominant Species Across All Strata: 3 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species $0 \times 1 = 0$			
1	Vaccinium uliginagum	25	✓	FAC	FACW Species 7 x 2 = 14			
1. 2.	Vaccinium uliginosum Salix reticulata	25 25		FAC	FAC Species 81 x 3 = 243			
3.	Betula nana	10		FAC	FACU Species 15 x 4 = 60			
4.	Cassiope tetragona	10		FACU	UPL Species 0 x 5 = 0			
5.	Vaccinium vitis-idaea	5		FAC				
6.	Loiseleuria procumbens			FACU	Column Totals: <u>103</u> (A) <u>317</u> (B)			
	Ledum decumbens	5		FACW	Prevalence Index = B/A =3.078_			
	Empetrum nigrum	- <u></u>		FAC	Hydrophytic Vegetation Indicators:			
	, , , , , , , , , , , , , , , , , , ,				Dominance Test is > 50%			
4.0		0			Prevalence Index is ≤3.0			
	Total Cove b Stratum 50% of Total Cover:		% of Total Cover	T: 18	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	On the same of the	10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Carex bigelowii			FAC	Indicators of hydric soil and wetland hydrology must			
3.	Pedicularis labradorica			FACW	be present, unless disturbed or problematic.			
4.	Anthoxanthum arcticum			FACW	Note that a deal to the state of the state o			
					Plot size (radius, or length x width) 10m			
		_			% Cover of Wetland Bryophytes (Where applicable)			
		_			% Bare Ground			
					Total Cover of Bryophytes 55			
		0			Hydrophytic			
	Total Cove				Vegetation			
i i	EOO/ - f T-+-1 C	c = 20%	of Total Cover	2.6	Present? Yes • No •			

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SOIL Sampling Point: SW13_T137_01

001=								Jp	10 54115_1157_01
Profile Description			eeded to docu	ument the indicator or co	nfirm the at		ators)		
Depth (inches)		Matrix					. 2	Texture	Remarks
0-1	Color (me	oist)	<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	_Loc_ ²	Fibric Organics	Remarks
	7.5/0	2.5/2							
1-3	7.5YR	2.5/2	100					Sandy Loam	
3-5			100					Hemic Organics	sand particles throughout, wavy boundary c
5-12	7.5YR	4/4	100					Sand	with 80 percent 4 inch angualar cobbles, p
				-					
1									
Type: C=Con	centration. D	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remark	rs)
Thick Dark	Surface (A12	2)		30:	:	.:			doala.a
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland h esent	lydrology,
Alaska Red	. ,			4 Give details of o	olor chang	 Je in Demark	·		
Alaska Gle	yed Pores (A1	.5)		· Give details of C	olor chang	e ili Kelliaik	.5		
Restrictive Laye	er (if present):	:							
Type:								Hydric Soil Present	? Yes ○ No •
Depth (inch	ies):								
Remarks:									
LIV/DDQ1 Q	0)/								
HYDROLO									
Wetland Hydr			L)						cators (two or more are required)
Primary Indicat		is sumden	L)		(:=: = = ===	anial Tarana	(DZ)		ned Leaves (B9)
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)					Patterns (B10) hizospheres along Living Roots (C3)
☐ High Water Table (A2)				☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)					of Reduced Iron (C4)
Saturation (A3) Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Depos	` '
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)
Drift Depo	' ' '			Other (Expla		, ,			ic Position (D2)
	or Crust (B4)				III III Keilia	ii KS)			juitard (D3)
☐ Iron Depo	, ,								graphic Relief (D4)
	oil Cracks (B6))							Il Test (D5)
Field Observa		,							
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):				
Water Table P	recent?	Yes (No •		-		Wetlau	nd Hydrology Presen	t? Yes ○ No •
Saturation Pre				Depth (inche	es):		W Cciai	na myarology i resen	t. 163 0 110 0
(includes capil		Yes 🤇	No 💿	Depth (inche	es):				
Describe Record	ded Data (stre	eam gauge,	monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:		
	,	5 5 .			•	,			
Remarks:									
no hydrology in	dicators obse	rved							
, ,									

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