WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T130_02		
	gator(s): JGK	e, hummocks etc.): Swale					
	relief (concave, convex, none): hummocky		2 ° Elevation: 108				
	gion : Interior Alaska Mountains						
		Lat(03.04 1209302				
	ap Unit Name:	NWI classification: PEM1/SS1B					
Are \		significantly	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Iorded, explain any answers in Remarks.) Iorded, explain features, etc.		
	Hydrophytic Vegetation Present? Yes No C						
	Hydric Soil Present? Yes ● No C		pled Area				
	Wetland Hydrology Present? Yes ● No C	wi	ithin a Wetland? Yes ● No ○				
Rem	arks:	<u> </u>					
	ETATION - Use scientific names of plants. Li	ist all spe Absolute % Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:3(A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover	:			Total % Cover of: Multiply by:		
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 45 x 1 = 45		
1	Salix pulchra	40	✓	FACW	FACW Species 40 x 2 = 80		
2.	Empetrum nigrum			FAC	FAC Species 31.1 x 3 = 93.30		
3.	Arctous ruber	0.1		FAC	FACU Species 0 x 4 = 0		
4.		0			UPL Species 0 x 5 = 0		
5.					Column Totals: <u>116.1</u> (A) <u>218.3</u> (B)		
6.		_					
7.		٥			Prevalence Index = B/A = <u>1.880</u>		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
He	Total Cover 50% of Total Cover:	9.02	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex aquatilis	30	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Comarum palustre		V	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Rhodiola integrifolia			FAC	be present, unless disturbed or problematic.		
4.	Anemone richardsonii			FAC	Plot size (radius, or length x width)10m		
5.	Viola palustris (IAM)			FAC	% Cover of Wetland Bryophytes 30		
6.	Equisetum arvense			FAC	(Where applicable)		
7.	Sanguisorba menziesii			FAC	% Bare Ground5		
8.					Total Cover of Bryophytes 60		
u							
				Hydrophytic			
		. 71			Vegetation		
	Total Cover 50% of Total Cover:		of Total Cover:	14.2	Vegetation Present? Yes No No		

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SOIL Sampling Point: SW13_T130_02

		the depth ne	eded to docum	nent the indicator or co	onfirm the ab		cators)				
Depth (inches)	Color (me	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4.5			100					Fibric Organics			
4.5-6	10YR	2/2	100					Silty Clay			
					_						
					-						
Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	ed Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblematio	c Hydric So	oils: ³				
	r Histel (A1)			Alaska Color C		4		☐ Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	` '				Alaska Alpine swales (TA5) Alaska Alpine swales (TA5)						
	Sulfide (A4)			Alaska Redox	•	•	✓	Other (Explain in Remark	s)		
_ ' '	Surface (A12))			2.0			` .	•		
Alaska Gle	•	-)						nary indicator of wetland h	ydrology,		
Alaska Gle				and an appropria	te landscap	e position r	must be pre	esent			
	yed Pores (A1	5)		4 Give details of o	olor change	e in Remark	(S				
Restrictive Laye	er (if present):	:									
Type: till								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 6										
Thin horizon of Positive alpha-a											
HYDROLO	GV										
Wetland Hyd		ators:						Secondary India	cators (two or more are required)		
Primary Indica)						ned Leaves (B9)		
			,	Inundation \	/icible on A	orial Image	rv (B7)				
☐ Surface Water (A1)✓ High Water Table (A2)				☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Deposi			
☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2)								Stressed Plants (D1)			
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								c Position (D2)		
				Other (Explo	iii iii iteilia	110)		✓ Shallow Ag	` '		
	☐ Iron Deposits (B5)								raphic Relief (D4)		
	oil Cracks (B6))						✓ FAC-neutra	. ,		
Field Observa		,									
Surface Water		Yes C	No 💿	Depth (inch	es):						
Water Table P			No O		•		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Depth (inche	es): 1		Wetiai	na nyarology Fresen	t: les C NO C		
(includes capi		Yes 🕑	No O	Depth (inche	es): 0						
Describe Recor	ded Data (stre	eam gauge,	monitor wel	l, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
Small ponded areas within plot, but not prevalent enough to meet intent of A1 (surface water). Positive reaction to alpha, alpha-dipyridyl indicates presence of reduced											
iron.											

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