WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 07-Aug-13				
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T178_07				
	gator(s): BAB		Landform (hil	andform (hillside, terrace, hummocks etc.): Outwash plain					
Local	relief (concave, convex, none): concave		Slope:		7 ° Elevation: 943				
	gion : Interior Alaska Mountains	l at ·	63.0503517387 Long.: -148.32587695 Datum: NAD83						
	ap Unit Name:		03.030331730						
			o V	No ○	NWI classification: PEM1E				
Are \	matic/hydrologic conditions on the site typical for this '/egetation , Soil , or Hydrology , Soil , or Hydrology WARY OF FINDINGS - Attach site map sho	significantl naturally p	y disturbed? roblematic?	Are "N (If nee	Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes No (\supset			·				
	Hydric Soil Present? Yes No		Is	Is the Sampled Area					
	Wetland Hydrology Present? Yes ● No (w	within a Wetland? Yes ● No ○					
Rem	arks: small stream running through center. second sr		running from	wetland to	the west.				
	ETATION - Use scientific names of plants. L	_ist all spe Absolute % Cover	Dominant	-	Dominance Test worksheet: Number of Dominant Species				
1.		0		-	That are OBL, FACW, or FAC: 4 (A)				
2.					Total Number of Dominant Species Across All Strata: 4 (B)				
3.					Percent of dominant Species				
4.		0			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:				
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 14.1 x 1 = 14.1				
1	Salix pulchra	5	✓	FACW	FACW Species 5 x 2 = 10				
2.	Andromeda polifolia (IAM)		~	OBL	FAC Species x 3 =3				
	Salix reticulata			FAC	FACU Species 0 x 4 = 0				
4.		_			UPL Species 0 x 5 = 0				
5.					Column Totals: <u>20.1</u> (A) <u>27.10</u> (B)				
6.									
7.		0			Prevalence Index = B/A = 1.348				
8.		0			Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
He	Total Cove b Stratum 50% of Total Cover: _		% of Total Cover:1.6		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex aquatilis		✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Carex rotundata		✓	OBL	¹ Indicators of hydric soil and wetland hydrology must				
3.	Eriophorum angustifolium			OBL	be present, unless disturbed or problematic.				
4.	Trichophorum caespitosum			OBL	Plot size (radius, or length x width)				
		•			% Cover of Wetland Bryophytes 20				
					(Where applicable)				
					% Bare Ground				
					Total Cover of Bryophytes55				
9.									
40					Hydrophytic Vegetation				
10.	Total Coun				TOMOLULUI				
10.	Total Cove 50% of Total Cover:		of Total Cover	2.42	Present? Yes ● No ○				

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SOIL Sampling Point: SW13_T178_07

		ne depth nee	ded to documen	t the indicator or co	onfirm the ab		cators)					
Depth (inches)	Color (mois	st)	% C	olor (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-12			100			.,,,,		Fibric Organics	w some sands and silts.			
12-16			50					Coarse Sand	sub ang gravel. w 50% org, leaves and root			
									Sub-ung graven w 30 % org, leaves and root			
¹Type: C=Co	ncentration. D=	Depletion. F		Matrix ² Locatio				nnel. M=Matrix				
Hydric Soil I	ndicators:		I	ndicators for P	roblematio	Hydric So	oils: ³					
Histosol o	r Histel (A1)			Alaska Color C	hange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epip	oedon (A2)			Alaska Alpine	aska Alpine swales (TA5) Underlying Layer							
✓ Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	rs)			
Thick Darl	k Surface (A12)		3	One indicator of	f buduanbud	ia vaaatatia		nary indicator of wetland h	vidro lo qui			
	eyed (A13)			and an appropria					ydiology,			
Alaska Re			4	Give details of c	color change	e in Remark	(S					
	eyed Pores (A15))										
Restrictive Lay	er (if present):							Hardala Call Barranak	? Yes • No O			
Type: Depth (incl	hac):							Hydric Soil Present	? Yes ● No O			
Remarks:	1105).											
sediment in org	guines											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)			
Primary Indica	ators (any one is	sufficient)						Water Stair	ned Leaves (B9)			
Surface V	Vater (A1)			☐ Inundation \	/isible on A	erial Image	ry (B7)	Drainage P	atterns (B10)			
High Water Table (A2)				Sparsely Veg	getated Cor	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation	Marl Deposit					f Reduced Iron (C4)						
Water Ma				✓ Hydrogen Su				Salt Depos				
	Deposits (B2)			Dry-Season					Stressed Plants (D1)			
Drift Dep				Other (Expla	iin in Rema	rks)		·	ic Position (D2)			
✓ Iron Depo	or Crust (B4)								juitard (D3) graphic Relief (D4)			
I — .	Soil Cracks (B6)							✓ FAC-neutra				
Field Observa								TAC ficula	1 (23)			
Surface Wate		Yes	No	Depth (inche	es): 1							
Water Table F		Yes			•		Wetlau	nd Hydrology Presen	t? Yes • No O			
Saturation Pro				Depth (inche	es): U		Weda	na myarology i resen	t. 165 © 116 ©			
(includes capi		Yes •	No \bigcirc	Depth (inche	es): 0							
Describe Recor	rded Data (strea	m gauge, n	nonitor well, a	erial photos, pre	vious inspe	ction) if ava	ailable:					
Remarks:												
looks like wate	r is low.											
.so.ec wate	,											

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