WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	orough Sampling Date: 08-Aug-13						
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T170_09			
	gator(s): WAD, RWM	lside, terrac	ee, hummocks etc.): Toeslope					
	relief (concave, convex, none): concave			Slope: 0.0 % / 0.0 ° Elevation: 658				
	gion : Interior Alaska Mountains	l at :	63.43006551		Long.: -148.629087448			
		Lat	03.43000331					
	ap Unit Name:		0 V	No ○	NWI classification: Upland			
Are \	MARY OF FINDINGS - Attach site map sho	significantl naturally p wing sar	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes deded, explain any answers in Remarks.) s, transects, important features, etc.			
	()		Is	s the Sampled Area				
			within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes No	<i></i>						
	erks: ETATION - Use scientific names of plants. L	ist all spe		•	Dominance Test worksheet:			
Tre	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.		0	. \square		Total Number of Dominant			
2.		0			Species Across All Strata: 4 (B)			
3.		0	. 📙		Percent of dominant Species			
4.		0	. 📙		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	. \square		Prevalence Index worksheet:			
	Total Cove				Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species0 x 1 =0			
1.	Picea glauca	3		FACU	FACW Species 30 x 2 = 60			
2.	Betula nana	45	✓	FAC	FAC Species <u>105</u> x 3 = <u>315</u>			
3.	Ledum decumbens	10		FACW	FACU Species <u>8</u> x 4 = <u>32</u>			
4.	Vaccinium vitis-idaea	5	. \square	FAC	UPL Species0 x 5 =0			
5.	Vaccinium uliginosum	35		FAC	Column Totals: <u>143</u> (A) <u>407</u> (B)			
6.	Salix pulchra	5		FACW				
7.	Empetrum nigrum	5	. 🔲	FAC	Prevalence Index = B/A =2.846_			
8.		0	. 📙		Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0	. \square		Prevalence Index is ≤3.0			
Hei	Total Cove b Stratum 50% of Total Cover:				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Bistorta plumosa			FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus			FACW	be present, unless disturbed or problematic.			
4.	Rubus chamaemorus		. 📙	FACW	Plot size (radius, or length x width)			
		•			% Cover of Wetland Bryophytes			
		_			(Where applicable)			
			. 📙		% Bare Ground			
					Total Cover of Bryophytes			
		- 0						
10.	Total Cove				Hydrophytic Vegetation			
1	50% of Total Cover:			: 7	Present? Yes • No			
	50% of Total Cover.	17.5 207	o di Tutal Cuvel	. /				

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SOIL Sampling Point: SW13_T170_09

		the depth ne	eeded to docur	ment the indicator or co	onfirm the ab		cators)				
Depth (inches)	Color (me	oist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-6			100					Fibric Organics	Fibric Organics		
6-14	10YR	4/1	100					Silt Loam	with very coarse sand		
-		<u> </u>						-			
								-			
¹Type: C=Co	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Locatio				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	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	pedon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Darl	k Surface (A12	2)		30	e 1				A. J.		
Alaska Gle	eyed (A13)			and an appropria	t hydrophyt ite landscar	ic vegetatio se position r	on, one prin must be pre	nary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)										
	eyed Pores (A1			⁴ Give details of o	color change	e in Kemark	(S				
Restrictive Laye	,										
	sonal frost , ic	e rich						Hydric Soil Present	? Yes ○ No •		
Depth (incl	nes): 14										
HYDROLO	GY										
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one	is sufficient	t)					Water Stained Leaves (B9)			
Surface Water (A1)				☐ Inundation \	/isible on A	erial Image	ry (B7)	Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit	ts (B15)				of Reduced Iron (C4)		
Water Ma		Hydrogen Su		. ,		☐ Salt Depos					
l — —					Water Tabl				Stressed Plants (D1)		
Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)							✓ Shallow Ac	' ' '		
☐ Iron Deposits (B5)									graphic Relief (D4)		
	oil Cracks (B6))						✓ FAC-neutra	al Test (D5)		
Field Observa		Voc C	No •	Danth (in ah							
Surface Wate				Depth (inche	es):						
Water Table F	Present?	Yes 🤇	No 💿	Depth (inch	es):		Wetla	nd Hydrology Presen	t? Yes 🕙 No 🔾		
Saturation Pre (includes capi		Yes 🖲	No O	Depth (inch	es): 14						
Describe Recor	ded Data (stre	eam gauge,	monitor we	ll, aerial photos, pre	evious inspe	ction) if ava	ailable:				
Damada											
Remarks:		.1 .61 1									
saturation assu	ımea at 14, le	vei of ice rid	ın frost. prot	oably dug pit too clo	se to the s	teep river b	ank.				

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