WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 08-Jul-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T131_08			
	igator(s): SLI. SCB		Landform (hillside, terrace, hummocks etc.): Hillside					
	relief (concave, convex, none): concave		Slope:		9 ° Elevation: 992			
	gion : Interior Alaska Mountains	l at·	62.976358414					
		Lat						
	ap Unit Name:		2 V	○ N: ○	NWI classification: PSS1B			
	matic/hydrologic conditions on the site typical for this	•		● No ○	` ' '			
		J	y disturbed?		tormar orroamotanoco procont.			
Are \	√egetation	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No	\supset						
	Hydric Soil Present? Yes ● No	\supset	Is the Sampled Area					
	Wetland Hydrology Present? Yes ● No (within a Wetland? Yes ● No ○					
Rem			po break upsk	ope from pl	lot. plot in relatively dry portion of wetland. small seeps and			
VEG	standing water in willows near R3UBH. ETATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.	Dominance Test worksheet:			
_		Absolute						
1.	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3 (A)			
					Total Number of Dominant			
2.					Species Across All Strata:3(B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	T.1.10				Prevalence Index worksheet:			
	Total Cove		of Total Cover		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species x 1 =			
1.	Salix pulchra	40	✓	FACW	FACW Species 40.1 x 2 = 80.2			
2.	Vaccinium uliginosum		✓	FAC	FAC Species <u>26.3</u> x 3 = <u>78.90</u>			
3.	Salix reticulata	2		FAC	FACU Species0 x 4 =0			
4.	Empetrum nigrum	2		FAC	UPL Species0 x 5 =0			
5.		0			Column Totals:77.5_ (A)170.2_ (B)			
6.		0			Prevalence Index = B/A = 2.196			
7.		0			Prevalence Index = B/A =2.196			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.					✓ Prevalence Index is ≤3.0			
He	Total Cove rb Stratum 50% of Total Cover: _		% of Total Cover	r: <u>12.8</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex aquatilis	10	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Comarum palustre			OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis	1		FAC	be present, unless disturbed or problematic.			
4.	Equisetum arvense			FAC	Plot size (radius, or length x width) 10m			
5.	Viola palustris (IAM)			FAC	% Cover of Wetland Bryophytes			
6.	Anemone richardsonii			FAC	(Where applicable)			
7.	Epilobium palustre			OBL	% Bare Ground			
8.	Cornus suecica			FAC	Total Cover of Bryophytes			
	Sanguisorba officinalis	0.1		FACW				
9.	Canguisorba officinaris	^	1 1					
9. 10.		0			Hydrophytic			
	Total Cove	r: <u>13.5</u>	of Total Cover	 : 2.7	Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T131_08

		ne depth need	ed to docume	ent the indicator or co	nfirm the abs		ators)					
Depth (inches)	Color (mois	st)	 %	Color (moist)	%	Type ¹	Loc_2	Texture	Remarks			
0-5	Color (IIIol.		100	Color (Illoist)	_76	Турс	LUC	Fibric Organics				
5-10			100					Hemic Organics				
					-			- Training Originates				
	-							-				
¹Type: C=Cor	ncentration. D=	Depletion. R		d Matrix ² Location		_		nnel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblematio	Hydric So	oils: ³					
Histosol or	Histel (A1)			Alaska Color Ch	or Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
✓ Histic Epip	edon (A2)			Alaska Alpine s	wales (TA5	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	s)			
☐ Thick Dark	Surface (A12)			2								
Alaska Gle	yed (A13)			 One indicator of and an appropriat 				nary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)					·	•					
Alaska Gle	yed Pores (A15)		⁴ Give details of co	olor change	e in Remark	S					
Restrictive Laye												
Type: froz								Hydric Soil Present?	? Yes ⊙ No O			
Depth (inch	nes): 10											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indic	cators (two or more are required)			
Primary Indica	tors (any one is	sufficient)						Water Stair	ned Leaves (B9)			
Surface W	/ater (A1)	Inundation V	isible on A	erial Imager	ry (B7)		atterns (B10)					
	er Table (A2)			Sparsely Veg	etated Con	cave Surfac	ce (B8)		nizospheres along Living Roots (C3)			
✓ Saturation	` '	Marl Deposits	(B15)				f Reduced Iron (C4)					
☐ Water Ma				Hydrogen Su				Salt Deposi				
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)			
☐ Drift Depo				U Other (Explai	n in Rema	rks)			c Position (D2)			
	or Crust (B4)							✓ Shallow Aq	` '			
☐ Iron Depo	. ,								raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)			
Field Observa		Yes 〇	Na 📵	5 4 6 1	,							
Surface Water				Depth (inche	s):							
Water Table P		Yes \bigcirc	No 🖭	Depth (inche	s):		Wetla	nd Hydrology Present	t? Yes 💿 No 🔾			
Saturation Pre (includes capi		Yes	No O	Depth (inche	s): 9							
Describe Recor	ded Data (strea	m gauge, m	onitor well,	aerial photos, prev	vious inspe	ction) if ava	ilable:					
Remarks:												

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