WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13						
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T103_07									
Investigator(s): WAD, BAB Landform (hillside, terrace, hummocks etc.): Hillside												
-	elief (concave, convex, none): hummocky			Slope:	% / 6.2	P. Control of the Con						
Subrea	ion : Interior Alaska Mountains	La	 ıt.: 6	62.784653544		Long.: -147.832634567 Datum: NAD83						
	p Unit Name:	NWI classification: PSS4B										
		this time of	voor	yes (No ○	(If no, explain in Remarks.)						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No												
	egetation , Soil , or Hydrology		-	oblematic?		eded, explain any answers in Remarks.)						
					·							
SUMN	MARY OF FINDINGS - Attach site map		sam	pling point	locations	s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes O	No O		la i	the Com	wled Area						
	Hydric Soil Present? Yes ●	No O		Is the Sampled Area within a Wetland? Yes ● No ○								
	Wetland Hydrology Present? Yes Output Yes	No O		within a Wetland? Yes ● No ○								
Rema	rks:											
VEGE	TATION - Use scientific names of plar	nts. List all	spe	cies in the p	olot.							
		Abso	lute	Dominant	Indicator	Dominance Test worksheet:						
	e Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)						
1.			0			Total Number of Dominant						
2.			0			Species Across All Strata:3(B)						
3.			0			Percent of dominant Species						
4. 5.			0			That Are OBL, FACW, or FAC:						
5.	Total	Cover:	0			Prevalence Index worksheet:						
Can			<u>0</u> 20% :	of Total Cover:	0	Total % Cover of: Multiply by:						
Sapi	ling/Shrub Stratum 50% of Total Cove	·	20/0		0	OBL Species 0 x1 = 0						
	Picea mariana		40	✓	FACW	FAC Species 57 x 2 = 114						
	Vaccinium uliginosum		10		FAC	FAC Species 48 x3 = 144 FACU Species 0 x4 = 0						
3.	Rhododendron tomentosum		10		FACW							
4.	Betula nana		8		FAC FAC							
5. 6.	Vaccinium vitis-idaea		1		FAC	Column Totals: <u>105</u> (A) <u>258</u> (B)						
7.	Empetrum nigrum		0		FAC	Prevalence Index = B/A = 2.457						
8.			0	П		Hydrophytic Vegetation Indicators:						
			0			Dominance Test is > 50%						
10.			0			✓ Prevalence Index is ≤3.0						
		Cover:	70			Morphological Adaptations ¹ (Provide supporting data in						
Her	b Stratum 50% of Total Cov	er: <u>35</u>	20%	of Total Cover:	14	Remarks or on a separate sheet)						
1.	Carex bigelowii		20	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Petasites frigidus		2		FACW	¹ Indicators of hydric soil and wetland hydrology must						
3.	Equisetum sylvaticum		8	✓	FAC	be present, unless disturbed or problematic.						
4.	Rubus chamaemorus		5		FACW	Plot size (radius, or length x width) 10m						
			0			% Cover of Wetland Bryophytes						
			0			(Where applicable)						
			0			% Bare Ground						
			0			Total Cover of Bryophytes						
			0									
10.	Total					Hydrophytic Vegetation						
	50% of Total Cove			of Total Cover:	7	Present? Yes • No O						
D						1						
кет	arks:											

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SOIL Sampling Point: SW13_T103_07

Profile Descripti	ion: (Describe to t	he depth n	eeded to docu	ment the in		nfirm the abs		ators)			
(inches)	Color (moi	st)	%	Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks	
0-1			100%						Fibric Organics		
1-12	5Y	4/2	60%	10YR	4/1	15%		М	Silty Clay	mixed matrix colors	
+mottle				2.5Y	4/4	15%	C	PL	Sandy Clay Loam		
								-			
								-			
									- <u></u>		
¹Type: C=Coi	ncentration. D=	 Depletion	. RM=Reduc				_		annel. M=Matrix		
Hydric Soil I	ndicators:				ors for Pro		4	oils:			
	r Histel (A1)				ka Color Ch				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
	pedon (A2)				ka Alpine sv	•	•	Other (Explain in Remark	(a)		
	Sulfide (A4)			∟ Alas	ka Redox W	/ith 2.5Y H	lue		」 Other (Explain in Remark	(5)	
	k Surface (A12)			³ One i	ndicator of	hvdrophvt	ic vegetatio	n, one prir	mary indicator of wetland h	vdrology,	
Alaska Gle					appropriate					,,,,,,,	
✓ Alaska Red	aox (A14) eyed Pores (A15	١		4 Give	details of co	olor change	e in Remark	s			
Restrictive Laye)									
Type: seas									Hydric Soil Present	? Yes ● No O	
Depth (inch									rryanic Son rresent	. 163 0 110 0	
Alaska color cn	ange on 5Y mat	trix to 101	′4/1 								
HYDROLO											
-	rology Indicat								Secondary Indi	cators (two or more are required)	
	itors (any one is	sufficien	<u>t)</u>						Water Stair	ned Leaves (B9)	
✓ Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)					☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5)		
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)							
✓ Saturation (A3)				Marl Deposits (B15)							
Water Marks (B1)				☐ Hydrogen Sulfide Odor (C1)							
Sediment	☐ Dry-Season Water Table (C2) ☐ Other (Explain in Remarks)						Stressed Plants (D1)				
☐ Drift Depo	. ,			∟ Ot	her (Explair	n in Remar	rks)			ic Position (D2)	
	or Crust (B4)									juitard (D3)	
☐ Iron Depo	• •									graphic Relief (D4)	
	oil Cracks (B6)							1	✓ FAC-neutra	Il Test (U5)	
Field Observa Surface Water		Vac (No O	D	anth (inches	~\· 1					
					epth (inches	•					
Water Table F		Yes 🕓	No O	De	epth (inches	s): 0		Wetia	nd Hydrology Presen	t? Yes ● No O	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):						s): 0					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
	in scattered dep	ressions									
Surface water	iii scattereu uep	JI C3310113.									

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