WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: S	susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 31-Jul-13						
Applicant/Owner:	Alaska Energy Authority				Sampling Point: SW13_T205_07						
nvestigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Hillside											
	ave, convex, none): flat		 Slope: 10.5	% / 6.0	-						
•	rior Alaska Mountains	l at ·	63.36693871		Long.: -148.799891591 Datum: WGS84						
		Lat	03.30093671								
Soil Map Unit Nar	-			No ○	NWI classification: Upland						
Are Vegetation Are Vegetation	☐ , Soil ☐ , or Hydrology ☐ F FINDINGS - Attach site map sho	significal naturally owing sa	ntly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ oded, explain any answers in Remarks.) s, transects, important features, etc.						
	tic Vegetation Present? Yes No No No No No No No No No No		Is the Sampled Area								
-		_	wi	etland? Yes O No 🖲							
	Hydrology Present? Yes ○ No ○	<u> </u>									
Remarks: /EGETATION	-Use scientific names of plants. I				Dominance Test worksheet:						
Tree Stratum		Absolut % Cov		Indicator	Number of Dominant Species						
1.	_	0			That are OBL, FACW, or FAC:3(A)						
2.					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 Cove	r: <u>0</u>	_		Total % Cover of: Multiply by:						
Sapling/Shrub	Stratum 50% of Total Cover:	0 20	0% of Total Cover:	0	OBL Species 0 x 1 = 0						
Vacciniur	m uliainosum	30	_	FAC	FACW Species 6 x 2 = 12						
Betula gla	•			FAC	FAC Species 63 x 3 = 189						
	ecumbens	5		FACW	FACU Species <u>5.1</u> x 4 = <u>20.4</u>						
4. Vacciniur	n vitis-idaea	1		FAC	UPL Species <u>0</u> x 5 = <u>0</u>						
5. Picea gla	uca	5		FACU	Column Totals:74.1 (A)221.4 (B)						
6. Salix pulc	chra	1		FACW							
7. Empetrur	n nigrum	7		FAC	Prevalence Index = B/A =						
8		0	_		Hydrophytic Vegetation Indicators:						
		0			✓ Dominance Test is > 50%						
10		0			✓ Prevalence Index is ≤3.0						
Herb Stratum	Total Cove 50% of Total Cover:		 0% of Total Cover	:13.8	 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 						
1. Bistorta	olumosa	0.	<u>1</u>	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)						
2. Carex big	gelowii	5	_	FAC	¹ Indicators of hydric soil and wetland hydrology must						
3		0	_		be present, unless disturbed or problematic.						
			_ =		Plot size (radius, or length x width)						
5			_ =		% Cover of Wetland Bryophytes						
					(Where applicable)						
			_ =		% Bare Ground <u>3</u>						
					Total Cover of Bryophytes						
		0									
10.	Total Cove		Hydrophytic Vegetation								
	50% of Total Cover:		_	1.02	Present? Yes • No O						
	_										

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SOIL Sampling Point: SW13_T205_07

		the depth no	eeded to docur	nent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3	5YR	2.5/1	100	color (moise)		1700	200	Hemic Organics			
3-8	5YR	3/2	100					Fine Sandy Loam	Abundant Fe-Mn nodules which may affect		
-								· -			
8-18	10YR	3/4	100					Sandy Loam	15% gravel.		
					-		-				
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue	L	Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12))		•							
Alaska Gle	yed (A13)			³ One indicator of and an appropriat	hydrophyl e landscar	tic vegetation	n, one prir	mary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)			** *		•	•	CSCITC			
Alaska Gle	eyed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	s				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO											
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica		s sufficien	t)					Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	_	atterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	s (B15)				f Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				Salt Depos			
	Deposits (B2)			☐ Dry-Season \		. ,			Stressed Plants (D1)		
☐ Drift Depo				Uther (Explai	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								uitard (D3)		
☐ Iron Depo	` ,								raphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutra	l Test (D5)		
Field Observa		Vac C	No ●	Booth Cook							
Surface Water				Depth (inche	·s):						
Water Table P	Present?	Yes 🤇	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capi		Yes C	No •	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											
no wedana nyo	arology mulcall	כ וע									

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