WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 04-Jul-13			
Applic	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T124_01			
	igator(s): JER		Landform (hill	side, terrac	ce, hummocks etc.): Shoulder slope			
	relief (concave, convex, none): concave		_	% / 2.0	<u> </u>			
	gion : Southcentral Alaska	l at ·	 62.77288425		Long.: -149.092552543 Datum: WGS84			
		Lut	02.77200425					
	ap Unit Name:		0 V	No ○	NWI classification: Upland			
	imatic/hydrologic conditions on the site typical for this t Vegetation \Box , Soil \Box , or Hydrology \Box	-	ar? Yes tly disturbed?		(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○			
		Ū	•		Process			
Are	Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturany p	problematic?	(if nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes O No	•						
	Hydric Soil Present? Yes No	the Sampled Area						
	Wetland Hydrology Present? Yes O No	within a '			Vetland? Yes ○ No ●			
Por			.					
Kei	narks: flat shoulder below knob, mixed dwarf shrub, r	ocks at su	ігтасе					
VEG	ETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.				
		Absolute	e Dominant	Indicator	Dominance Test worksheet:			
Tre	ee Stratum	% Cove		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 2 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 33.3% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover		-		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species			
1.	Salix arctica	5		FACU	FACW Species 5 x 2 =10			
2.	Vaccinium uliginosum	20	✓	FAC	FAC Species <u>35.1</u> x 3 = <u>105.3</u>			
3.		5		FACW	FACU Species 44 x 4 = 176			
4.	Loiseleuria procumbens	10	_	FACU	UPL Species <u>11</u> x 5 = <u>55</u>			
5.	Betula nana	5	_	FAC	Column Totals: 95.1 (A) 346.3 (B)			
6.	Betula neoalaskana	1	_	FACU	Prevalence Index = B/A =3.641			
7.	Arctostaphylos alpina			FACU	116 Valence mack = B/A =			
8.	Empetrum nigrum	5		FAC	Hydrophytic Vegetation Indicators:			
9.		10	-	UPL	☐ Dominance Test is > 50%			
10.		0	_		☐ Prevalence Index is ≤3.0			
На	Total Cover rb Stratum 50% of Total Cover:			: 16.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.		3		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.			- <u>·</u>	FAC	Indicators of hydric soil and wetland hydrology must			
3.	Anemone narcissiflora			FACU	be present, unless disturbed or problematic.			
4.		2		FAC				
5.	Oxytropis maydelliana			UPL	Plot size (radius, or length x width)			
		0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)			
6.	Tofieldia coccinea							
			_		% Bare Ground _5			
7.		0	_ 🗆		% Bare Ground5 Total Cover of Bryophytes15			
7. 8.		0						
7. 8. 9.		0						
7. 8. 9.		0 0 0 0 0 14.1		2.82	Total Cover of Bryophytes15			

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SOIL Sampling Point: SW13_T124_01

Profile Descripti	ion: (Describe to	the denth n	eeded to doci	ument the indicator or co	nfirm the ab	sence of indic	ators)	•	10mm 04415_1114_01				
		Matrix	ecucu to acc.		dox Feat		attisj						
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-3	7.5YR	2.5/2	100		_			Silt Loam	high organic content and gravel				
3-6	7.5YR	2.5/3	100					Loamy Sand	gravel and cobbles				
6-20	10YR	3/4	100		-			Loamy Sand	gravel and cobbles				
	1011	3/ 1						Eddiny duna	graver and cobbles				
								-					
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix					
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: ³						
	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder				
Histic Epip	` '			Alaska Alpine s		-		Underlying Layer					
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	rs)				
	Surface (A12))											
Alaska Gle	yed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	nydrology,				
Alaska Red	dox (A14)						•	ESCIIC					
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor chang	je in Remark	S						
Restrictive Laye	er (if present):												
Type:	(p. 656.1.c).							Hydric Soil Present	? Yes ○ No •				
Depth (inch	nes):							Tryanic Son Tresent	. 163 0 110 0				
Domarket													
	Remarks: no hydric soil indicators												
no nyane son n	idicators												
HYDROLO													
Wetland Hydi								Secondary Indicators (two or more are required)					
Primary Indica		<u>is sufficien</u>	t)						ned Leaves (B9)				
Surface W	. ,			Inundation V		-		_	Patterns (B10)				
	er Table (A2)			☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)					hizospheres along Living Roots (C3) of Reduced Iron (C4)				
Saturation					. ,	(04)			` '				
☐ Water Ma				Hydrogen Su				☐ Salt Depos					
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)				
	☐ Drift Deposits (B3) ☐ Other (Explain in								ic Position (D2)				
☐ Iron Deposits (B5)									quitard (D3)				
									graphic Relief (D4) al Test (D5)				
	oil Cracks (B6)						1	☐ FAC-neutra	ii Test (D5)				
Field Observa Surface Water		Voc (No ●	Danth (in the	-1.								
				Depth (inche	·s):								
Water Table P		Yes 🤇	No ●	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •				
Saturation Pre (includes capi		Yes C	No •	Depth (inche	es):								
Describe Recor	ded Data (stre	am gauge	, monitor w	ell, aerial photos, prev	vious inspe	ection) if ava	ilable:						
Remarks:													
no wetland hydrology indicators													

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