WETLAND DETERMINATION DATA FORM - Alaska Region

i i Ojecu.	Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Aug-13			
Applicar	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T161_04			
nvestig				Landform (hills	side, terrac	e, hummocks etc.): Toeslope			
Ū	lief (concave, convex, none): concave			Slope:	% / 7.2	· ·			
•	on : Interior Alaska Mountains		al (63.329356172	0				
	O Unit Name:				<u> </u>	NWI classification: PSS1B			
Are Ve	atic/hydrologic conditions on the site typical for this getation , Soil , or Hydrology getation , Soil , or Hydrology , or Hydrology ARY OF FINDINGS - Attach site map si	signif natura howing	icantly ally pro	disturbed?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.) s, transects, important features, etc.			
	.,	\circ				pled Area			
		\circ		wi	thin a W	Wetland? Yes ● No ○			
	ks: Toeslope in a bowl shape, several springs thro TATION -Use scientific names of plants					Dominion Technologie			
			olute	Dominant		Dominance Test worksheet:			
	Stratum	_% (Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)			
1.						Total Number of Dominant			
2		_				Species Across All Strata:3(B)			
3.		_				Percent of dominant Species That Are OBL, FACW, or FAC: 33,3% (A/B)			
4. 5.			0			That Are OBL, FACW, or FAC: 33.3% (A/B)			
J	Total Co		0			Prevalence Index worksheet:			
C!		_	20%	of Total Cover:	0	Total % Cover of: Multiply by:			
Sapii	ng/Shrub Stratum 50% of Total Cover:	0	20%		0	OBL Species <u>1.1</u> x 1 = <u>1.1</u>			
1	Salix polaris		40	~	FACW	FACW Species 41.1 x 2 = 82.2			
2			0			FAC Species 2 x 3 = 6			
3			0			FACU Species 6.2 x 4 = 24.8			
4.			0			UPL Species <u>4</u> x 5 = <u>20</u>			
5.						Column Totals: <u>54.4</u> (A) <u>134.1</u> (B)			
6						Prevalence Index = B/A = 2.465			
7		_							
8		_	0			Hydrophytic Vegetation Indicators:			
9 10.		_	0			☐ Dominance Test is > 50% Prevalence Index is < 3.0			
10.	Total Co	wer:	40						
Herb	Stratum 50% of Total Cover:			of Total Cover	8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Saxifraga nivalis		4	✓	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)			
_	Trisetum spicatum		1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Poa alpina		0.1		FACU	be present, unless disturbed or problematic.			
4.	Oxyria digyna		6	✓	FACU	Plot size (radius or length y width)			
5.	Carex media		1		FACW	Plot size (radius, or length x width)			
6.	Geum rossii		0.1		FACU	(Where applicable)			
7	Ranunculus hyperboreus		0.1		OBL	% Bare Ground			
8	Parnassia kotzebuei	_	0.1		FACW	Total Cover of Bryophytes 15			
٠	Micranthes nelsoniana	_	1		FAC OBL				
10	Arctophila fulva	Hydrophytic							
	Total Co		14.4	of Total Cover:	2.88	Vegetation Present? Yes ● No ○			
	50% of Total Cover:	77	/ 170						

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SOIL Sampling Point: SW13_T161_04

		the depth nee	eded to docume	ent the indicator or co	onfirm the ab		cators)			
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks	
0-3	COIOI (IIIO	istj	100	Color (Illoist)		Турс	LUC	Fibric Organics		
3-18		3/2	100					Loamy Sand	lots of and gravel	
								Loanly Sand	lots of ang gravel	
-								-		
							-	-		
¹Type: C=Cor	ncentration. D=	-Depletion.		d Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	ndicators:		,	Indicators for Pi	roblemati	c Hydric S	oils: ³			
Histosol o	r Histel (A1)		ſ	Alaska Color C	hange (TA	4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)		ſ	Alaska Alpine s	swales (TA!	.5)	_	Underlying Layer		
	Sulfide (A4)			Alaska Redox \	With 2.5Y F	Hue	✓	Other (Explain in Remarks)		
	k Surface (A12))								
Alaska Gle				³ One indicator of and an appropria				nary indicator of wetland h	nydrology,	
Alaska Red				апи ан арргорна	(e idilusca _k	je position i	must be pre	eseni		
Alaska Gle	eyed Pores (A15	5)		⁴ Give details of c	olor change	e in Remark	ks			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🏵 No 🔾	
Depth (inch	nes):							•		
Remarks:										
									_	
HYDROLO	GY									
Wetland Hyd		tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one i	is sufficient)						ned Leaves (B9)	
✓ Surface W	Vater (A1)			☐ Inundation V	√isible on A	verial Image	ery (B7)	Drainage F	Patterns (B10)	
✓ High Water Table (A2)				Sparsely Veg	jetated Cor	ncave Surfa	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposit	is (B15)			Presence of	of Reduced Iron (C4)	
☐ Water Ma	☐ Water Marks (B1)				ulfide Odor	(C1)		☐ Salt Depos	its (C5)	
Sediment	Deposits (B2)			Dry-Season	Water Tabl	ie (C2)		Stunted or	Stressed Plants (D1)	
Drift Depo	osits (B3)			Other (Expla	in in Rema	ırks)		✓ Geomorph	ic Position (D2)	
Algal Mat	or Crust (B4)							Shallow Ac	quitard (D3)	
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)	
Surface S	ioil Cracks (B6)							FAC-neutra	al Test (D5)	
Field Observa	ations:	_	_				\neg			
Surface Water	r Present?	Yes 🕑	No O	Depth (inche	es): 2					
Water Table P	Present?	Yes 💿	No O	Depth (inche	es): 5		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pre	esent?	Vac (No O	, ,	•			-		
(includes capi		res 😊	NO ∪	Depth (inche	es): 4					
Describe Recor	ded Data (stre	am gauge,	monitor well,	aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										
small spring coming from mountainside.										

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