WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	i	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 05-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T100_04			
Investi	gator(s): BAB		Landform (hillside, terrace, hummocks etc.): Swale					
	elief (concave, convex, none): concave		Slope: 0.0 % / 0.0 ° Elevation: 788					
Subred	jion : Copper River Basin	Lat.:	62.620935319 Long.: -147.406508345 Datum: WGS84					
	p Unit Name:		02.02000011		NWI classification: PEM1E			
	natic/hydrologic conditions on the site typical for this ti	me of vea	r? Yes	● No ○	(If no, explain in Remarks.)			
Are \	egetation . , Soil . , or Hydrology . s	significant naturally p	ly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No C		1 31 -		-,			
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Is	Is the Sampled Area				
	· · · · · · · · · · · · · · · · · · ·		w	within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes ● No ○ arks:	, 						
	ETATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:			
<u>Tre</u> 1.	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:			
2.		0	_		Total Number of Dominant			
3.					Species Across All Strata: 6 (B)			
4.		0	- 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			-					
0.	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:			
San	ling/Shrub Stratum 50% of Total Cover:		- 6 of Total Cover	: 0				
-			_		OBL Species <u>35</u> x 1 = <u>35</u> FACW Species 2 x 2 = 4			
	Salix fuscescens	1	- '	FACW	FAC Species x 2 =4			
2. 3.	Chamaedaphne calyculata Betula nana		- V	FACW	FACU Species $0 \times 4 = 0$			
4.		0	- 🖺	FAC	UPL Species 0 x 5 = 0			
5.			• Б					
6.			·		Column Totals: <u>38</u> (A) <u>42</u> (B)			
7.		0			Prevalence Index = B/A = 1.105			
8.		0	_		Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Her	Total Cover: b Stratum 50% of Total Cover:		- % of Total Cove	r: 0.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Eriophorum angustifolium	_ 2		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Eriophorum scheuchzeri			OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Trichophorum caespitosum	- 1	_	OBL	be present, unless disturbed or problematic.			
4.	Carex limosa	8	_	OBL	Plot size (radius, or length x width) 10m			
5.	Menyanthes trifoliata		. <u>~</u>	OBL	% Cover of Wetland Bryophytes			
6.	Carex rotundata	5	. 📙	OBL	(Where applicable)			
7.	Carex aquatilis		. <u>~</u>	OBL	% Bare Ground 0			
8.		0			Total Cover of Bryophytes 90			
9.								
10			. 🗀		Hydrophytic Vegetation			
					TEUCLOUII			
	Total Cover: 50% of Total Cover: 1		-	: 7	Present? Yes ● No ○			

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

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Depth (inches)								Tarahuna	Domanico	
(inches)	Color (mois			olor (moist)	<u>%</u>	Type ¹	Loc ²	Texture Constitution	Remarks	
0-16			100					Fibric Organics		
			— —							
			— —							
¹Type: C=Co	ncentration. D=I	Depletion. R		Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	ndicators:		Ir	ndicators for Pr	oblemati	c Hydric So	oils: ³			
✓ Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer						
✓ Hydrogen	Sulfide (A4)		Ĺ	Alaska Redox V	Nith 2.5Y F	Hue		Other (Explain in Remark	s)	
☐ Thick Darl	k Surface (A12)									
	eyed (A13)			One indicator of and an appropriat				nary indicator of wetland h	ydrology,	
Alaska Red							•	esenc		
Alaska Gle	eyed Pores (A15))		Give details of co	olor change	e in Remark	(S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes ◉ No O	
Depth (incl	nes):									
HYDROLO	GY									
	rology Indicat	ors:						Secondary India	cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)							ned Leaves (B9)	
✓ Surface V	Vater (A1)		ļ	☐ Inundation V	isible on A	verial Image	ry (B7)	Drainage P	Patterns (B10)	
High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
✓ Saturation	n (A3)		!	Marl Deposits	. ,				f Reduced Iron (C4)	
Water Ma	irks (B1)		ļ	✓ Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)	
Sediment	Deposits (B2)		ļ	Dry-Season V	Water Tabl	le (C2)			Stressed Plants (D1)	
Drift Depo	osits (B3)		ļ	Other (Explai	in in Rema	ırks)		✓ Geomorphi		
Algal Mat	or Crust (B4)								uitard (D3)	
Iron Depo	• ,							_	graphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa		(
Surface Wate	r Present?	Yes O	_	Depth (inche	:s): 1					
Water Table F	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 0		Wetlar	nd Hydrology Presen	t? Yes • No 🔾	
Saturation Pro (includes capi		Yes	No \bigcirc	Depth (inche	es): 0					
-		m gauge, m	nonitor well, a	aerial photos, prev	vious inspe	ection) if ava	ailable:			
Remarks:										

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