WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T333_21			
	pator(s): ERT, TXC	Landform (hill	side, terrac	e, hummocks etc.): SPRING				
Local re	elief (concave, convex, none): concave		Slope: 1.7	% / 1.0	° Elevation:			
	ion : Interior Alaska Mountains	Lat.:		_	Long.: Datum: WGS84			
_	p Unit Name:				NWI classification: PEM1B			
	natic/hydrologic conditions on the site typical for this ti	ma af vaa	v-2 Voc	● No ○				
			tly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
Are V	egetation \square , Soil \square , or Hydrology \square	naturally p	oroblematic?		eded, explain any answers in Remarks.)			
SUMN	MARY OF FINDINGS - Attach site map sho	wing sai	mpling point					
	Hydrophytic Vegetation Present? Yes ● No C)						
	Hydric Soil Present? Yes No C)		Is the Sampled Area				
	Wetland Hydrology Present? Yes No C		wi	within a Wetland? Yes ● No ○				
Rema								
VEGE	TATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.				
		Absolute	e Dominant	Indicator	Dominance Test worksheet:			
Tree	Stratum	% Cove		Status	Number of Dominant Species			
1.					That are OBL, FACW, or FAC:			
2.					Total Number of Dominant Species Across All Strata: 6 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cover	:	_		Total % Cover of: Multiply by:			
Sapl	ing/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species25 x 1 =25			
1.	Salix reticulata	2	\checkmark	FAC	FACW Species 2 x 2 = 4			
	Salix pulchra	1	✓	FACW	FAC Species <u>4.2</u> x 3 = <u>12.6</u>			
3.	Vaccinium uliginosum	1	✓	FAC	FACU Species0 x 4 =0			
4.	Betula glandulosa	1	✓	FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Dasiphora fruticosa	0.1		FAC	Column Totals: <u>31.2</u> (A) <u>41.6</u> (B)			
6.		0	. \square					
7.		0	. 📙		Prevalence Index = B/A =1.333			
8.		0	. 📙		Hydrophytic Vegetation Indicators:			
9.			. 📙		✓ Dominance Test is > 50%			
10.		0	. \square		Prevalence Index is ≤3.0			
Herl	Total Cover 50% of Total Cover:			: 1.02	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex aquatilis	15	✓	OBL	Problematic Hydrophytic Vegetation (Explain)			
2.	Eriophorum angustifolium	_	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Carex rotundata	4		OBL	be present, unless disturbed or problematic.			
4.	Juncus albescens		. 🔲	FACW	Plot size (radius, or length x width) 4x8m			
5.	Rumex arcticus		. 📙	FAC	% Cover of Wetland Bryophytes 70			
					(Where applicable)			
					% Bare Ground3			
					Total Cover of Bryophytes			
			-					
10.	7110	0 26.1	. \square		Hydrophytic			
	Total Cover 50% of Total Cover: 1	E 22	Vegetation 5 22 Present? Yes ● No ○					
		.3.03 207	o or rotal Cover:	5.22	1			
Rema	arks: spring running through plot							

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SOIL Sampling Point: SW15_T333_21

Profile Descripti			ded to documer	nt the indicator or co			ators)				
Depth		latrix	— —		dox Featu						
(inches)	Color (mois	st)	<u>%</u> _ C	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-3								Mucky Peat	, -		
3-12								Muck	,		
12-13									rocky mineral soil		
					-						
			— —								
¹Type: C=Cor	ncentration. D=I	Depletion. F		Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:		I	Indicators for Pr	oblematic	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	hange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
✓ Hydrogen	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)							
☐ Thick Dark	k Surface (A12)										
Alaska Gle				³ One indicator of and an appropriat				nary indicator of wetland h	iydrology,		
Alaska Red						•	•	eseni			
Alaska Gle	eyed Pores (A15))		4 Give details of co	olor change	e in Remark	`S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):			<u></u> .							
HYDROLO	GY										
-	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)						Water Stained Leaves (B9)			
✓ Surface W	Vater (A1)			☐ Inundation V	/isible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)		
✓ High Wate	er Table (A2)			Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)				
✓ Saturation	n (A3)			Marl Deposits	. ,				of Reduced Iron (C4)		
Water Ma	rks (B1)			✓ Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dry-Season V	Water Tabl	e (C2)			Stressed Plants (D1)		
Drift Depo	` ,			Other (Explai	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
Iron Depo	. ,								graphic Relief (D4)		
	ioil Cracks (B6)							✓ FAC-neutra	ıl Test (D5)		
Field Observa		(
Surface Water		Yes		Depth (inche	:s):						
Water Table P	resent?	Yes 💿	No \bigcirc	Depth (inche	es): 9		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pre (includes capi		Yes	No \bigcirc	Depth (inche	es): 0						
		m gauge, n	nonitor well,	aerial photos, prev	vious inspe	ection) if ava	ailable:				
Remarks:											
A1spring runi	ning through plo	ot.									

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