WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 19-Jun-12						
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW12_T29_06								
Investigator(s): JGK Landform (hillside, terrace, hummocks etc.): Hillside											
Local re	elief (concave, convex, none): hummocky		Slope: 83.9	% / 40.0	0 ° Elevation: 692						
Subreq	ion : Southcentral Alaska	Lat.:	62.785399908	 36	Long.: -148.81190997 Datum: WGS84						
	p Unit Name:				NWI classification: Upland						
Are clin Are V Are V	natic/hydrologic conditions on the site typical for this tiegetation , Soil , or Hydrology egetation , Soil , or Hydrology , or Hydrology , soil , or Hydrology , soil , or Hydrology , and the site map show the site site map show the site site site site site site site sit	significantl naturally p wing san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)						
	Hydrophytic Vegetation Present? Yes No	the Sam	ipled Area								
	Hydric Soil Present? Yes No			ithin a W							
	Wetland Hydrology Present? Yes O No 🖲)									
	TATION - Use scientific names of plants. Li	st all spe Absolute % Cover	Dominant	•	Dominance Test worksheet: Number of Dominant Species That are ORL FACW or FAC: (A)						
1.		0			That are OBL, FACW, or FAC: 4 (A)						
2.		0			Total Number of Dominant Species Across All Strata:4 (B)						
3.		0			Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.		0	. \square		Prevalence Index worksheet:						
	Total Cover				Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species x 1 =0						
1.	Vaccinium uliginosum	20	✓	FAC	FACW Species 20 x 2 = 40						
2.	Empetrum nigrum	_ 30	. •	FAC	FAC Species 70 x 3 = 210						
3.	Vaccinium vitis-idaea	5	. 📙	FAC	FACU Species 1 x 4 = 4						
4.	Betula nana	10		FAC	UPL Species <u>0</u> x 5 = <u>0</u>						
	Ledum decumbens		. 💆	FACW	Column Totals: 91 (A) 254 (B)						
	Lycopodium clavatum		. 📙	FACU	Prevalence Index = B/A = 2.791						
7.			. 📙								
9.		0			Hydrophytic Vegetation Indicators: Dominance Test is > 50%						
					✓ Prevalence Index is ≤3.0						
	Total Cover: 50% of Total Cover:	86	% of Total Cove	T: 17.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
-	Rubus arcticus	5	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
	Trabato di ciliodo				Indicators of hydric soil and wetland hydrology must						
3.		0			be present, unless disturbed or problematic.						
					Plot size (radius, or length x width)						
					% Cover of Wetland Bryophytes 20						
					(Where applicable) % Bare Ground 0						
					% Bare Ground 0 Total Cover of Bryophytes 70						
					70						
		0			Hydrophytic						
	Total Cover:	<u> </u>			Vegetation						
L	50% of Total Cover:	2.5 20%	of Total Cover	1	Present? Yes ● No ○						
10.		0 5 2.5 20%									

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SOIL Sampling Point: SW12_T29_06

Profile Description		the depth ne	eded to docum	nent the indicator or co	onfirm the ab		cators)	_			
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4					. —			Fibric Organics			
4-8	10YR	2/1	50					Silty Clay Loam	40% 2 x 4 in angular rocks 10% roots		
-							-		3.7		
¹Type: C=Con	centration. D=	Depletion	. RM=Reduce	ed Matrix ² Location		_		annel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pr	roblematio	c Hydric S	oils: ³				
Histosol or	Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epipe	edon (A2)			Alaska Alpine s	swales (TA	5)	Underlying Layer				
Hydrogen S	Sulfide (A4)			Alaska Redox \	With 2.5Y H	(S)					
☐ Thick Dark	Surface (A12)										
Alaska Gley	/ed (A13)			³ One indicator of and an appropria				mary indicator of wetland h	ydrology,		
Alaska Red	ox (A14)					•	•	esent			
	ed Pores (A15	j)		⁴ Give details of o	olor change	e in Remark	ks				
Restrictive Layer	r (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
HYDROLOG	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one i	s sufficient	<u>:) </u>					Water Stained Leaves (B9)			
Surface Wa	ater (A1)			☐ Inundation V	/isible on A	erial Image	ery (B7)		Patterns (B10)		
High Wate	r Table (A2)			Sparsely Veg	jetated Cor	ncave Surfa	ice (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposit	s (B15)				of Reduced Iron (C4)		
Water Mar				Hydrogen Su	ılfide Odor	(C1)		Salt Depos			
	Sediment Deposits (B2)				Water Tabl				Stressed Plants (D1)		
Drift Depos				Other (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)							_	quitard (D3)		
Iron Depos	. ,								graphic Relief (D4)		
Surface So	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observa	tions:	_									
Surface Water	Present?		No 💿	Depth (inche	es):						
Water Table Pr	resent?	Yes C	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pres (includes capill	Yes C	No •	Depth (inche	es):							
Describe Record	led Data (strea	am gauge,	monitor wel	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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