WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroelectric Proje	ct	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15			
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T315_05			
nvesti	gator(s): EKJ, SCB		l	Landform (hill	side, terrac	e, hummocks etc.): drainage			
	relief (concave, convex, none): hummocky			Slope: 3.5	% / 2.0				
	gion : Cook Inlet Mountains		Lat.: _			Long.: Datum: WGS84			
oil Ma	ap Unit Name:					NWI classification: PEM1E			
Are \ Are \	matic/hydrologic conditions on the site typical /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology , Soil , or Hydrology , Soil , or Hydrology	, ☐ sigr , ☐ nat ap showir	nificantly urally pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes O	No O		Is the Sampled Area					
	Hydric Soil Present? Yes ●	No O		within a Wetland? Yes No					
	Wetland Hydrology Present? Yes ●	No 🔾		WI	thin a W	etland? res © No C			
Rema	arks: small channel flowing through, approx 6	in wide, 3 ii	n deep, i	minimally inci	sed				
EGE	ETATION - Use scientific names of pl		all spe	cies in the	plot.	Dominance Test worksheet:			
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.						That are OBL, FACW, or FAC:5(A) Total Number of Dominant			
2.						Species Across All Strata: 5 (B)			
3.						Percent of dominant Species			
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.						Prevalence Index worksheet:			
	Tot	al Cover:				Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Co	ver: 0	20%	of Total Cover:	0	OBL Species 66.1 x 1 = 66.1			
			_	✓	F4.0	FACW Species 9 x 2 = 18			
	Salix barclayi		5		FAC	FAC Species 9 x 3 = 27			
2.	Dasiphora fruticosa			✓	FAC				
3.	Salix fuscescens				FACW				
4.	Salix reticulata		1		FAC				
5.	Vaccinium uliginosum		1		FAC	Column Totals: <u>84.1</u> (A) <u>111.1</u> (B			
6.	Salix pulchra				FACW	Prevalence Index = B/A =1.321_			
7.									
8.						Hydrophytic Vegetation Indicators:			
						✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
u _o ,	Tot b Stratum 50% of Total C	cal Cover:	12 20%	of Total Cover	: 2.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
-	Carex aquatilis		40	✓	OBL	Problematic Hydrophytic Vegetation (Explain)			
1. 2.	Crienharum enguetifalium		20	✓	OBL				
2. 3.	Camarum naluatra		5		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3. 4.	Eziste a service a		5		FACW				
4 . 5.	O		1	П	FACW	Plot size (radius, or length x width) 10m			
	Caray limana		1	\Box	OBL	% Cover of Wetland Bryophytes			
6.	T2.6		0.1		OBL	(Where applicable)			
7.	· · · · · · · · · · · · · · · · · · ·		0.1			% Bare Ground 5			
0			0			Total Cover of Bryophytes			
8.			U						
9.			0	1 1					
9.			0			Hydrophytic			
9.		al Cover:	72.1	of Total Carra		Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW15_T315_05

Profile Descript		ne depth nee	ded to documer	nt the indicator or co	nfirm the ab		cators)						
Depth (inches)	Color (mois		% (Color (moist)	%	_Type ¹	_Loc_2	Texture	Remarks				
0-1	Color (Illois	st)	100	color (Illoist)		туре	LUC	Fibric Organics					
1-20			100					Hemic Organics					
					-								
		-											
¹Type: C=Co	ncentration. D=I	Depletion. I	RM=Reduced	Matrix ² Location	n: PL=Pore	E Lining. RC	C=Root Cha	nnel. M=Matrix					
Hydric Soil I	ndicators:		I	ndicators for Pr	oblematio	Hydric So	oils: ³						
✓ Histosol or Histel (A1) ☐ Alaska Color Change (
Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer									
Hydrogen	Sulfide (A4)			Alaska Redox \	lue	Other (Explain in Remarks)							
☐ Thick Darl	k Surface (A12)												
Alaska Gle	eyed (A13)			One indicator of and an appropriate				nary indicator of wetland h	ydrology,				
Alaska Re	dox (A14)					•		Serie					
Alaska Gle	eyed Pores (A15))		⁴ Give details of c	olor change	e in Remark	(S						
Restrictive Lay	er (if present):												
Type:								Hydric Soil Present?	? Yes ● No O				
Depth (incl	nes):												
HYDROLO	GY												
Wetland Hyd	rology Indicat	ors:						Secondary Indic	cators (two or more are required)				
Primary Indica	ntors (any one is	sufficient)						Water Stair	ned Leaves (B9)				
✓ Surface V	Vater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)	Drainage P	atterns (B10)				
✓ High Wat	er Table (A2)			Sparsely Veg	etated Cor	cave Surfac	ce (B8)		nizospheres along Living Roots (C3)				
✓ Saturation	. ,			Marl Deposit	s (B15)			_	f Reduced Iron (C4)				
Water Ma				Hydrogen Su				Salt Deposi					
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)				
☐ Drift Dep				U Other (Expla	in in Rema	rks)			c Position (D2)				
	or Crust (B4)							Shallow Aq					
☐ Iron Depo	. ,							_	raphic Relief (D4)				
	oil Cracks (B6)							✓ FAC-neutra	i Test (D5)				
Field Observa		Yes	No O	Danth (in the									
Surface Wate				Depth (inche	es): 3								
Water Table F		Yes	No \bigcirc	Depth (inche	es): 0		Wetlai	nd Hydrology Present	t? Yes • No ·				
Saturation Pre (includes capi		Yes	No O	Depth (inche	es): 0								
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ailable:						
Damadaa													
Remarks:													
smail 6" R2UBI	n running throu	yn south sid	ue or piot, no	ı very incised. sca	werea poo	s or surface	e water thro	oughout community. D4h	ummocks.				

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