## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydr	oelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	25-Jun-12		
Applic	ant/Owner: Alaska Energy A	uthority				Sampling Point: SV	V12_T28_06		
	igator(s): JGK	e, hummocks etc.): Bluff							
	relief (concave, convex, none):	hummocky		Slope: 5.2		° Elevation: 733			
	gion : Interior Alaska Mountain			62.869849908	_	Long.: -148.371154972 Datum: WGS8			
		15	Lat(	32.009049900	02				
	ap Unit Name:			. V	No ○	NWI classification: Upland			
Are \	matic/hydrologic conditions on to degetation	, or Hydrology	significantly	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  formal Circumstances" present?  Yes ( ded, explain any answers in Remarks.)  s, transects, important features, e			
	Hydrophytic Vegetation Preser			le	the Sam	nled Area			
	Hydric Soil Present?	Yes O No 🤄			Is the Sampled Area within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present?	Yes O No 🤄	)	VVI	uiiii a vv	etiana:			
	etation - Use scientific	names of plants. L	ist all spe	cies in the	plot.	Dawinana Tashwadahash			
Tro	ee Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:  Number of Dominant Species			
1.	e stratum		0		<u> </u>	That are OBL, FACW, or FAC:	4 (A)		
2.						Total Number of Dominant Species Across All Strata:	4 (B)		
3.						Percent of dominant Species	_ <del>4</del> (B)		
4.			0				00.0% (A/B)		
5.			0			Prevalence Index worksheet:			
		Total Cover	:			Total % Cover of: Multiply b	ov:		
Sap	oling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 =	0		
1	Retula glandulosa		30	<b>✓</b>	FAC	FACW Species 25 x 2 =	50		
2.	Betula glandulosa Ledum decumbens			<b>V</b>	FACW	FAC Species 75 x 3 =			
3.	Vaccinium uliginosum		20	<b>✓</b>	FAC	FACU Species 0 x 4 =	0		
4.	Vaccinium vitis-idaea		5		FAC	UPL Species 0 x 5 =	0		
5.	Empetrum nigrum		10		FAC	Column Totals: 100 (A)	275 (B)		
6.			0						
7.			0			Prevalence Index = B/A =	2.750		
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
He	rb Stratum	<b>Total Cover</b> 50% of Total Cover:		of Total Cover	:18	Morphological Adaptations <sup>1</sup> (Provide s Remarks or on a separate sheet)	upporting data in		
1.	Carex bigelowii		10	✓	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (	Explain)		
2.						<sup>1</sup> Indicators of hydric soil and wetland hydro	logy must		
			0			be present, unless disturbed or problematic	•		
4.			0			Plot size (radius, or length x width)	10m		
			•			% Cover of Wetland Bryophytes	0		
						(Where applicable)			
						% Bare Ground	5		
						Total Cover of Bryophytes	60		
10.		Total Cover				Hydrophytic Vegetation			
		50% of Total Cover:		of Total Cover:	2	Present? Yes • No			

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SOIL Sampling Point: SW12\_T28\_06

		the depth n	eeded to docu	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (mo		%		%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-1	COIOI (IIIC	oist)	80	Color (moist)		Туре	LUC	Hemic Organics	20% roots		
1-3	10YR	4/2	90					Silt Loam	burn layerabundant charcoal & ash		
								-			
3-5	10R	2.5/1	100					Sandy Loam	Fe and Mn concretions		
5-18		4/3	95					Loamy Sand	5% coarse S-subang gravelstaining upper		
								-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color Cl	nange (TA	4) <sup>4</sup>		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)	Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	(S)		
☐ Thick Dark	Surface (A12	)		30					d de		
Alaska Gle	, , ,			and an appropriat	nyaropnyı e landscar	tic vegetation i	on, one prin must be pre	mary indicator of wetland hesent	lydrology,		
Alaska Red	dox (A14)					•	•				
	eyed Pores (A1			<sup>4</sup> Give details of co	olor chang	e in Kemari	KS				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	itors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)					Water Stained Leaves (B9)			
Surface W	Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				Patterns (B10)		
High Wate	High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits (B15)				Presence of Reduced Iron (C4)			
Water Ma				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)								juitard (D3)		
☐ Iron Depo	. ,							✓ FAC-neutra	graphic Relief (D4)		
Field Observa	oil Cracks (B6)							▼ FAC-Heutra	ii Test (D3)		
Surface Water		Yes (	No •	Depth (inche	c).						
			No •	• •	•		Wetle.	nd Hydrology Presen	t? Yes ○ No •		
Water Table P		_	_	Depth (inche	s):		wetia	na nyarology Presen	tr res U NO U		
Saturation Pre (includes capi		Yes (	No 💿	Depth (inche	s):						
Describe Recor	ded Data (stre	am gauge	, monitor we	ll, aerial photos, pre	ious inspe	ection) if ava	ailable:				
Remarks:											

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