## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydi	oelectric Project	В	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12			
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW12_T53_02			
	gator(s): CTS, EKJ		e, hummocks etc.): Mountainslope						
	relief (concave, convex, none):	convex		Slope:	% / 18.2				
	gion: Southcentral Alaska	CONTOX	l at :	62.806818233		Long.: -149.056565723 Datum: NAD83			
			Lat	02.00001023	00				
	ap Unit Name:			- )/	<u> </u>	NWI classification: Upland			
	matic/hydrologic conditions on	· — —	•		● No ○	(If no, explain in Remarks.)			
	/egetation  , Soil	. , ., _	•	y disturbed?		ionnal oli cametaneco precent.			
Are \	/egetation ☐ , Soil ☐	, or Hydrology	naturally pr	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUMI	MARY OF FINDINGS - A	ttach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Prese	nt? Yes • No C							
	Hydric Soil Present?	Yes O No 🤄		Is	Is the Sampled Area				
	Wetland Hydrology Present?	Yes O No @		within a Wetland? Yes ○ No ●					
Rem	arks: Sdet on convex slope	Tes O NO G		'					
/EGI	ETATION - Use scientific	names of plants. L	ist all spe	ecies in the	•	Dominance Test worksheet:			
Tre	e Stratum		% Cover		Status	Number of Dominant Species			
1.			0			That are OBL, FACW, or FAC: 2 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.			0			Prevalence Index worksheet:			
		Total Cover	:0			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 0 x 1 = 0			
1	Vaccinium uliginosum		50	<b>✓</b>	FAC	FACW Species 5.1 x 2 = 10.2			
2.	Empetrum nigrum		60	<u> </u>	FAC	FAC Species 126.2 x 3 = 378.6			
3.	Betula nana		15		FAC	FACU Species 6 x 4 = 24			
4.	Vaccinium vitis-idaea		1		FAC	UPL Species 0 x 5 = 0			
5.	Rhododendron tomentosum		5		FACW	Column Totals: <u>137.3</u> (A) <u>412.8</u> (B)			
6.	Linnaea borealis		1		FACU				
7.			0			Prevalence Index = B/A = 3.007			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			Prevalence Index is ≤3.0			
Hei	rb Stratum	<b>Total Cover</b> 50% of Total Cover:				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus canadensis		5	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Pedicularis labradorica		0.1		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis		0.1	_	FAC	be present, unless disturbed or problematic.			
					FAC	Plot size (radius, or length x width)			
5.						% Cover of Wetland Bryophytes 30			
6.						(Where applicable)			
						% Bare Ground			
						Total Cover of Bryophytes30			
						Hydrophytic			
			_			Vanatation			
		<b>Total Cover</b> 50% of Total Cover:		of Total Cover	1.06	Vegetation Present?  Yes  No			

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SOIL Sampling Point: SW12\_T53\_02

Profile Descripti	on: (Describe to	the denth n	eeded to doci	ment the indicator or co	nfirm the al	nsence of indic	ators)	•				
		Matrix	ecucu to acct		lox Feat		ators					
Depth (inches)	Color (mo	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-2	10YR	2/2	80					Silt Loam	20% roots			
2-8	7.5YR	2.5/2	100					Silt Loam	few roots			
8-12	7.5YR	2.5/3	90					Sandy Loam	10% angular gravel			
12-19	10YR	3/3	90					Sandy Loam	10% coarse angular gravel and cobble			
								Sandy Loani	10% coarse arigular graver and cobble			
					-							
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	, ,			Alaska Alpine s		-		Underlying Layer				
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	(S)			
	Surface (A12	)										
Alaska Gle	yed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland h	nydrology,			
Alaska Red	dox (A14)							ESCIT				
Alaska Gle	yed Pores (A1	5)		4 Give details of co	olor chang	je in Remark	S					
Restrictive Laye	er (if present):											
Type:	(							Hydric Soil Present	? Yes ○ No ●			
Depth (inch	nes):							,				
Remarks:												
no hydric soil in	ndicators											
no nyane son m	idicator5											
HYDROLO												
Wetland Hydi									cators (two or more are required)			
Primary Indica		is sufficien	t)						ned Leaves (B9)			
Surface W	. ,			Inundation V		-	, , ,		Patterns (B10)			
	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface ☐ Saturation (A3) ☐ Marl Deposits (B15)						ce (B8)		hizospheres along Living Roots (C3)			
	_								of Reduced Iron (C4)			
Water Mai				Hydrogen Su				☐ Salt Depos				
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)			
☐ Drift Depo				U Other (Explai	n in Rema	arks)			ic Position (D2)			
Algal Mat or Crust (B4)  Shallow Aquitard (D3)												
☐ Iron Depo									graphic Relief (D4)			
	oil Cracks (B6)							☐ FAC-neutra	al Test (D5)			
Field Observa		v (										
Surface Water	r Present?		No 💿	Depth (inche	s):							
Water Table P	resent?	Yes	No ●	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿			
Saturation Pre (includes capil		Yes C	No •	Depth (inche	s):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hydrology indicators												
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