WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hy	droelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13								
Applic	ant/Owner: Alaska Energy	Authority				Sampling Point: SW13_T111_02								
nvest	gator(s): JER	,		Landform (hill	side, terrac	e, hummocks etc.): Valley bottom								
	relief (concave, convex, none): convex		Slope: 1.7	% / 1.0									
	gion: Interior Alaska Mounta		l at ·	 62.7728374		Long.: -148.148642898 Datum: WGS84								
		11115	Lat	02.1120314										
	ap Unit Name:			,	<u> </u>	NWI classification: Upland								
	matic/hydrologic conditions or $igcup_{igcap}$, Soil $igcap$				● No ○	(If no, explain in Remarks.) Ormal Circumstances" present? Yes ● No ○								
	Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Care Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)													
Are	/egetation □ , Soil □	, or Hydrology \square	naturally pr	obiematic?	(If nee	eded, explain any answers in Remarks.)								
MU	MARY OF FINDINGS -	Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Pres	ent? Yes No)											
	Hydric Soil Present?	Yes O No		Is	the Sam	pled Area								
	Wetland Hydrology Present?			wi	thin a W	etland? Yes O No 🖲								
_														
Rer	narks: valley bottom above fl	oodplain,heavydie back o	n betnan s	alpul, lots cari	bou trails m	nany caribou in area								
/EG	ETATION - Use scientific	names of plants. L	ist all spe	cies in the	nlot.									
						Dominance Test worksheet:								
Tre	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.	e Stratum		0			That are OBL, FACW, or FAC: (A)								
2.			0	П		Total Number of Dominant								
3.			0	П		Species Across All Strata:3(B)								
4.			0	\Box		Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)								
5.			0			Parallel Market								
		Total Cover	:0			Prevalence Index worksheet: Total % Cover of: Multiply by:								
Sa	oling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x1 = 0								
		_				FACW Species 5 x 2 = 10								
	Betula nana		0.1		FAC	FAC Species 34 x 3 = 102								
2. 3.	Salix pulchra		0.1		FACW	FACU Species 14 x 4 = 56								
4.	Dasiphora fruticosa Empetrum nigrum		0.1		FAC FAC	UPL Species 0 x 5 = 0								
5.	Salix reticulata		0.1		FAC									
6.	Vaccinium uliginosum		0.1	\Box	FAC	Column Totals: <u>53</u> (A) <u>168</u> (B)								
7.	vaccillam diigiliosum		0.1	П	TAC	Prevalence Index = B/A = 3.170								
8.			0	П		Hydrophytic Vegetation Indicators:								
9.			0	Ī		Dominance Test is > 50%								
10.			0	П		Prevalence Index is ≤ 3.0								
10.		Total Cover		_		Morphological Adaptations ¹ (Provide supporting data in								
Не	rb Stratum	50% of Total Cover:		of Total Cover	: 0.12	Remarks or on a separate sheet)								
1.	Cornus suecica		15	✓	FAC	✓ Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Solidago multiradiata		7	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must								
3.	Aconitum delphinifolium		2		FAC	be present, unless disturbed or problematic.								
4.	Festuca altaica		10	✓	FAC	Plot size (radius or longth y width)								
5.	Valeriana capitata				FAC	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes								
6.	Equisetum arvense				FAC	(Where applicable)								
7.	Sanguisorba canadensis		3		FACW	% Bare Ground								
8.	Mertensia paniculata		5		FACU	Total Cover of Bryophytes								
9.	Petasites frigidus		2		FACW									
10.	Artemisia norvegica		2		FACU	Hydrophytic								
1		Total Cover				Vegetation Present? Yes ● No ○								
		50% of Total Cover:			10.6	Present? Yes ♥ No ♥								

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SOIL Sampling Point: SW13_T111_02

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Profile Description		the depth ne	eded to docu	ment the indicator or co	nfirm the at dox Featu		ators)				
Depth (inches)						Type ¹	_Loc_2	Texture	Remarks		
0-2	Color (me	DIST)	<u>%</u> 100	Color (moist)		Туре	LOC	Hemic Organcis	Kemarks		
2-7			100					Sapric Organics	1" layer of sand at 2in		
								-			
7-17	7.5YR	3/2	80					Sandy Loam	high org content and inclsn of orgs and 10yr		
17-18	10YR	4/3	100					Loamy Sand	gravel and cobbles		
			-	-				-			
¹Type: C=Con	ncentration. D	=Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
	Histel (A1)			Alaska Color C		4	,	Alaska Gleyed Without H	ue 5V or Redder		
Histic Epip	` '			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox \	•	,		Other (Explain in Remarks)			
	Surface (A12)									
Alaska Gle	-	,						nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te iandsca	pe position r	nust be pre	esent			
Alaska Gle	yed Pores (A1	5)		⁴ Give details of o	olor chang	e in Remark	is.				
Restrictive Laye	er (if nresent):										
Type:	i (ii presenc).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							Tryune Jon Frederic			
Remarks:											
no hydric soil in	ndicators										
no riyunc son in	iuicators										
HYDROLO											
Wetland Hydr			`						cators (two or more are required)		
Primary Indicat		is sufficient	:)					Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
Surface Water (A1)				Inundation V		-			` '		
High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3) of Reduced Iron (C4)		
Saturation (A3)				☐ Marl Deposit☐ Hydrogen Su	. ,	(C1)		Salt Depos	` '		
					Water Tab				Stressed Plants (D1)		
Drift Deposits (B3)				Other (Expla		. ,			ic Position (D2)		
	or Crust (B4)				III III Neille	11 (2)			quitard (D3)		
☐ Iron Depo							graphic Relief (D4)				
	oil Cracks (B6))							al Test (D5)		
Field Observa		·									
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No •	Depth (inche).		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre				, ,	•		, , , ,	,u.o.og,coc	100 0 110 0		
(includes capil		Yes \subseteq	No 💿	Depth (inche	es):						
Describe Record	ded Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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