WETLAND DETERMINATION DATA FORM - Alaska Region

roject	Site: Susitna-Watana Hydroelectric Project	!	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 18-Aug-15		
pplica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T326_06		
vesti	pator(s): GVF		Landform (hil	lside, terrac	e, hummocks etc.): Footslope		
ocal r	elief (concave, convex, none): hummocky		Slope: 10.5	5 % / 6.0	° Elevation:		
ubrea	ion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84		
_	p Unit Name:				NWI classification: PSS1E		
	natic/hydrologic conditions on the site typical for this	lima af uaa	-2 Voc	● No ○	(If no, explain in Remarks.)		
Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology ### ARY OF FINDINGS - Attach site map sho	significant naturally p wing sar	ly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes No O		
	Hydrophytic Vegetation Present? Yes 💿 🛮 No 🤇		J. I.A.				
	Hydric Soil Present? Yes ● No 🤇	\supset			npled Area /etland? Yes ◉ No ◯		
	Wetland Hydrology Present? Yes No	\supset	within a Wetland? Yes ● No ○				
Rema	rks:						
	TATION - Use scientific names of plants. L	ist all sp Absolute % Cover	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1.					That are OBL, FACW, or FAC: 4 (A)		
2.				-	Total Number of Dominant Species Across All Strata: 4 (B)		
3.					Percent of dominant Species		
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.					Prevalence Index worksheet:		
	Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:		
Sap	ing/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species26.5 x 1 =26.5		
1.	Myrica gale	15	✓	OBL	FACW Species 4.1 x 2 = 8.2		
2.	Dasiphora fruticosa ssp. floribunda	7	✓	FAC	FAC Species <u>7.1</u> x 3 = <u>21.3</u>		
3.	Andromeda polifolia	4		FACW	FACU Species 0 x 4 = 0		
4.	Vaccinium oxycoccos	0.1		OBL	UPL Species 0 x 5 = 0		
5.	Picea mariana	0.1		FACW	Column Totals: <u>37.7</u> (A) <u>56.00</u> (B)		
6.		0			Prevalence Index = B/A = 1.485		
7.		0			11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
8.		0			Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
10.	Tatal Com-	0			✓ Prevalence Index is ≤3.0		
Herl	Total Cove Stratum 50% of Total Cover: _			r: 5.24	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
	Trichophorum caespitosum	7	~	OBL	Problematic Hydrophytic Vegetation (Explain)		
	Carex limosa		<u>✓</u>	OBL	¹ Indicators of hydric soil and wetland hydrology must		
	Comarum palustre			OBL	be present, unless disturbed or problematic.		
4.	Eriophorum angustifolium			OBL	District of all and beautiful titles		
5.	Viola adunca	0.1		FAC	Plot size (radius, or length x width)		
6.	Drosera rotundifolia	0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)		
7.	Menyanthes trifoliata	0.1		OBL	% Bare Ground45		
8.	Carex pauciflora			OBL	Total Cover of Bryophytes		
9.							
40					Hydrophytic		
10.		r: 11.5			Vegetation		
10.	Total Cove : 50% of Total Cover:		-	: 2.3	Present? Yes No		

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SOIL Sampling Point: SW15_T326_06

O-5			edox Features	1 2	_			
	noist) %	Color (moist)	<u>%</u> <u>Ty</u>	pe ¹ Loc ²	Texture	Remarks		
					Mucky Peat	_		
5-24					Muck	with hemic inclusions		
						-		
						_		
					-			
Type: C=Concentration. [D=Depletion, RM=	=Reduced Matrix ² Location	on: PL=Pore Lini	ing. RC=Root Cha	annel. M=Matrix	-		
lydric Soil Indicators:		Indicators for F						
Histosol or Histel (A1)		Alaska Color		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epipedon (A2)		Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen Sulfide (A4)		Alaska Redox With 2.5Y Hue Other (Explain in Remarks)						
Thick Dark Surface (A1)	2)		2.5			,		
Alaska Gleyed (A13)	2)				mary indicator of wetland	hydrology,		
Alaska Redox (A14)		and an appropri	ate landscape po	sition must be pr	esent			
Alaska Gleyed Pores (A	15)	⁴ Give details of	color change in F	Remarks				
estrictive Layer (if present):							
Type:	,-				Hydric Soil Present	t? Yes ● No ○		
Depth (inches):					,			
YDROLOGY								
etland Hydrology Indi						licators (two or more are required)		
rimary Indicators (any one Surface Water (A1)	e is sumicient)			. (57)		nined Leaves (B9)		
✓ Surface water (A1) ✓ High Water Table (A2)			Visible on Aerial			Patterns (B10)		
✓ Flight Water Table (A2) ✓ Saturation (A3)			getated Concave	Surface (B8)		Rhizospheres along Living Roots (C3) of Reduced Iron (C4)		
Water Marks (B1)		☐ Marl Depos	. ,		Salt Depo			
Sediment Deposits (B2)	\		ulfide Odor (C1)					
Drift Deposits (B3)	.)		Water Table (C2	2)		or Stressed Plants (D1) hic Position (D2)		
_ ' ' '		Uther (Expl	ain in Remarks)			` '		
Algal Mat or Crust (B4))				quitard (D3)			
☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6	-				✓ Microtopo ✓ FAC-neutr	ographic Relief (D4)		
	o)				▼ FAC-Heuti	al Test (D5)		
ield Observations: Surface Water Present?	Yes N	o O Depth (inch	nos): 1					
		. `	•					
Vater Table Present?	Yes 💿 N	0 ○ Depth (inch	nes): 3	Wetla	nd Hydrology Presei	nt? Yes ● No 🔾		
Saturation Present?	Yes 💿 N	o O Depth (inch	nes): 0					
includes capillary fringe)	ream dauge mon	itor well, aerial photos, pr	evious inspection) if available:				
includes capillary fringe)	eam gauge, mon							
includes capillary fringe) escribe Recorded Data (st	eam gauge, mon							
includes capillary fringe)	eam gauge, mon							

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