WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner:		oject/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanu								
	laska Energy Authority				Sampling Point: SW15_T318_0					
nvestigator(s): AF	·W	I	Landform (hil	lside, terrac	e, hummocks etc.): Mountainslope					
ocal relief (concave	convex, none): undulating		Slope: 10.5	5 % / 6.0	° Elevation:					
ubregion: Cook In	let Mountains	Lat.:			Long.: Datum: WGS					
oil Map Unit Name:	ot mountaine				NWI classification: Upland					
•	c conditions on the site typical for this	time of year?) Vac	● No ○	(If no, explain in Remarks.)					
Are Vegetation Are Vegetation	, Soil , or Hydrology , Soil , or Hydrology ,	significantly naturally pro	disturbed?	Are "N	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.)					
· ·		•		,						
UMMARY OF F	INDINGS - Attach site map sh	owing sam	pling point	locations	, transects, important features, etc.					
Hydrophytic V	egetation Present? Yes O No									
Hydric Soil Pr	esent? Yes O No	\odot		the Sam						
Wetland Hydr	ology Present? Yes O No	lacktriangle	within a Wetland? Yes ○ No ●							
	ndra near upper elevation limit of tall	alder	·							
EGETATION - (Ise scientific names of plants.	List all spe	cies in the	plot.						
		Absolute	Dominant	Indicator	Dominance Test worksheet:					
Tree Stratum		% Cover	Species?	Status	Number of Dominant Species					
1.		0			That are OBL, FACW, or FAC:					
2.		0			Total Number of Dominant Species Across All Strata: 2 (E					
3					Percent of dominant Species					
4.		0			That Are OBL, FACW, or FAC: 50.0%					
5		0			Prevalence Index worksheet:					
	Total Cov				Total % Cover of: Multiply by:					
Sapling/Shrub Str	50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species x 1 =0					
Empetrum ni	grum	10	✓	FAC	FACW Species <u>6</u> x 2 = <u>12</u>					
2. Arctous alpin	ıs	10	✓	FACU	FAC Species <u>16</u> x 3 = <u>48</u>					
3. Rhododendro	n tomentosum	5		FACW	FACU Species 10.1 x 4 = 40.40					
4. Diapensia la	ponica	3		UPL	UPL Species <u>3</u> x 5 = <u>15</u>					
5. Vaccinium vit	is-idaea	3		FAC	Column Totals: <u>35.1</u> (A) <u>115.4</u>					
Salix pulchra		1		FACW						
7. Picea glauca		0.1		FACU	Prevalence Index = B/A =3.288_					
8		0			Hydrophytic Vegetation Indicators:					
					☐ Dominance Test is > 50%					
10					Prevalence Index is ≤3.0					
Herb Stratum	Total Cov 50% of Total Cover:				Morphological Adaptations (Provide supporting data Remarks or on a separate sheet)					
Carex bigelor				FAC	Problematic Hydrophytic Vegetation (Explain)					
					Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
				-	be present, unless disturbed of problematic.					
					Plot size (radius, or length x width) <u>10m</u>					
					% Cover of Wetland Bryophytes					
					(Where applicable)					
					% Bare Ground					
					Total Cover of Bryophytes					
			\Box		U. dva vlastia					
10.	Total Cov				Hydrophytic Vegetation					

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SOIL Sampling Point: SW15_T318_01

Drafile Description	(Describe to	the death no		···· - at the indicator or co	-e the ak	- and of indic	-+===1	· -	10 54415_1510_01		
		the depth he Matrix	eaea to aoci	ment the indicator or co	ntirm the action of the contract of the contra		ators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1	10YR	4/2	100					Sandy Loam			
1-5	7.5YR	2.5/2	100					Sandy Loam			
5-8	7.5YR	2.5/3	100					Sandy Loam	semi-rounded gravel		
8-16	10YR	3/4	100					Loamy Sand	fine to coarse semirounded gravel		
16-21	2.5Y	4/2	100					Loamy Sand	fine to coarse semirounded gravel		
-											
-											
¹Type: C=Con	centration. D	=Depletion.	RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric Sc	oils: ³				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	. ,			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12)		3 One indicator of	h. dranh.	tia vaaatatia		nam, indicator of watland h	vedvolo ov		
Alaska Gley	yed (A13)			and an appropriat				nary indicator of wetland hesent	lydrology,		
Alaska Red	. ,			4 Give details of co	olor chang	e in Remark	s				
☐ Alaska Gley	yed Pores (A1	5)		GIVE details of ex	Jior Criarig	je ili remark					
Restrictive Laye	r (if present):										
Type:	>-							Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO											
Wetland Hydr									cators (two or more are required)		
Primary Indicat		is sufficient)						ned Leaves (B9)		
Surface W	. ,			☐ Inundation V		-			Patterns (B10)		
Saturation	er Table (A2)			Sparsely Veg		ncave Surfac	e (B8)		hizospheres along Living Roots (C3) of Reduced Iron (C4)		
Water Mar				☐ Marl Deposits ☐ Hydrogen Su	. ,	· (C1)		Salt Depos	` '		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
Drift Depo	' ' '			Other (Explai		` '			ic Position (D2)		
	or Crust (B4)				II III Keilie	11 1.5)			juitard (D3)		
☐ Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6))							Il Test (D5)		
Field Observa											
Surface Water	Present?	Yes C	No 💿	Depth (inche	s): 0						
Water Table P	resent?	Yes C	No 💿	Depth (inche	s): 0		Wetlar	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre		Yes O	No •	Depth (inche	•						
(includes capil				' '			1-1-1-				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
soil pit dry. no wetland hydrology indicators.											

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