## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date:	19-Aug-15	
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW	/15_T321_08	
Investic	gator(s): SLI, ATH	L	andform (hil	lside, terrac	e, hummocks etc.): Crest		
-	elief (concave, convex, none): convex		Slope: 0.0		-		
	ion : Cook Inlet Mountains	Lat.:			Long.: Da	atum: WGS84	
_							
	p Unit Name:			● No ○	NWI classification: Upland		
	natic/hydrologic conditions on the site typical for this til	-			(If no, explain in Remarks.)  ormal Circumstances" present?  Yes	● No ○	
		significantly			officer of confictations process.		
Are v	egetation 🔲 , Soil 🔲 , or Hydrology 🔲 ı	naturally pro	biematic?	(If nee	ded, explain any answers in Remarks.)		
SUMN	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, e	etc.	
	Hydrophytic Vegetation Present? Yes ● No C	)					
	Hydric Soil Present? Yes ○ No ⑤	)	Is	the Sam	pled Area		
	Wetland Hydrology Present? Yes No		w	ithin a W	etland? Yes O No 💿		
	irks: Hiking from SW15-T321-07 to here: peatland>		Ider (seens a	and areas of	standing water)>spruce woodland wit	h tall alder	
	understory (seeps and areas of standing water), vearlier plot (SW15_T321_06), with athfil understored	with patches					
VEGE	TATION - Use scientific names of plants. Li	st all spec	cies in the	plot.			
	· ·	Allt	Daminant	·	Dominance Test worksheet:		
Tree	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	Picea glauca	15	<b>✓</b>	FACU	That are OBL, FACW, or FAC:	(A)	
2.		0			Total Number of Dominant Species Across All Strata:	5 (B)	
3.		0			Percent of dominant Species		
4.		0				80.0% (A/B)	
5.		0			Prevalence Index worksheet:		
	Total Covers	15			Total % Cover of: Multiply b	oy:	
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 20% d	of Total Cover	:3	OBL Species0 x 1 =	0	
1	Vaccinium uliginosum	40	<b>✓</b>	FAC	FACW Species 3 x 2 =	6	
2.	Empetrum nigrum	20	<b>✓</b>	FAC	FAC Species 84 x 3 =	252	
3.	Salix commutata	3		FAC	FACU Species 21.2 x 4 =	84.80	
4.	Salix pulchra	2		FACW	UPL Species0 x 5 =	0	
5.	Spiraea stevenii	1		FACU	Column Totals: <u>108.2</u> (A)	_342.8_ (B)	
6.	Vaccinium vitis-idaea	1		FAC			
7.	Linnaea borealis	_1_		FACU	Prevalence Index = B/A =	3.168	
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			Prevalence Index is ≤3.0		
Her	Total Cover: 50% of Total Cover:		of Total Cove	r: <u>13.6</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Cornus suecica		<b>~</b>	FAC	Problematic Hydrophytic Vegetation (	(Explain)	
2.	Rubus pedatus		<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydro	logy must	
3.	Calamagrostis canadensis	-		FAC	be present, unless disturbed or problematic		
4.	Lupinus nootkatensis	_		FACU	Plot size (radius, or length x width)	_10m	
5.	Rubus arcticus			FAC	% Cover of Wetland Bryophytes		
6.	Sanguisorba officinalis			FACU	(Where applicable)		
	Spinulum annotinum  Phegopteris connectilis	$\frac{1}{0.1}$		FACU FACU	% Bare Ground	_3	
8.		0.1		FACU	Total Cover of Bryophytes	95	
9.	Streptopus amplexifolius	0.1		1 100			
10.	Total Cover:				Hydrophytic Vegetation		
	50% of Total Cover:		of Total Cover	: 5.04	Present? Yes • No		
Rem	arks: Trace unidentified grass.						

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(inches)	Color (mo	sict\	0/-	Color (moist)	0/-	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	Color (me	DIST)	<u> </u>	Color (moist)	<u>%</u>	Type	LOC	Техсите	rooted organics
2-3	2.5YR	3/6	100%					Loam	
					-			-	
3-3.5	10YR	2/2	100%					Loam	
3.5-4.5	2.5Y	4/2			-			Loam	_
4.5-18	10YR	3/4						Loam	two matrix colors, intermixed
	10YR	3/3	50%					Loam	
									_
Evne: C=Conce	entration D	=Denletion		ed Matrix <sup>2</sup> Location	n· Pl =Pore	Lining RC	=Root Cha	nnel M=Matrix	
ydric Soil Ind		-Беріссіої	i. Kri–Reduce	Indicators for Pi		_		Tillel. PI—Platrix	
Histosol or H				Alaska Color C		4	)iis.	Alaska Gleyed Without	Hue 5V or Pedder
Histic Epiped	. ,			Alaska Alpine s		-		Underlying Layer	Tide 51 of Reddel
Hydrogen Su				Alaska Redox V				Other (Explain in Rem	arks)
Thick Dark S	` '	)							
Alaska Gleye	•	,		<sup>3</sup> One indicator of	hydrophyti	ic vegetatio	n, one prim	nary indicator of wetland	d hydrology,
Alaska Redox				and an appropria	te iandscap	e position r	nust be pre	esent	
Alaska Gleye	ed Pores (A1	5)		<sup>4</sup> Give details of c	olor change	e in Remark	is.		
strictive Layer (	(if present):								
Type:	,							Hydric Soil Prese	nt? Yes O No 💿
	<u>,                                      </u>								
Depth (inches marks: hydric soil indi	<u>,                                      </u>								
marks: hydric soil indi	icators.								
marks: hydric soil indi  /DROLOG etland Hydrol	icators.								ndicators (two or more are required
marks: hydric soil indi  DROLOG  etland Hydrol imary Indicator	icators.  SY  logy Indicators (any one		nt)					Water S	tained Leaves (B9)
marks: hydric soil indi  DROLOG etland Hydrol imary Indicator  Surface Wat	icators.  SY  logy Indicators (any one ter (A1)		nt)	☐ Inundation V				Water S Drainage	tained Leaves (B9) e Patterns (B10)
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