## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T347_01		
nvestigator(s): AFW		Landform (hil	lside, terrac	e, hummocks etc.): Valley bottom		
ocal relief (concave, convex, none): hummocky		Slope: 1.7	% / 1.0	° Elevation:		
ubregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
oil Map Unit Name:			NWI classification: PSS1B			
re climatic/hydrologic conditions on the site typical for this ti	ima of voor	-2 Vac	● No ○	(If no, explain in Remarks.)		
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology .  SUMMARY OF FINDINGS - Attach site map sho	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	ormal Circumstances" present? Yes  No Oded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes No	_	le	pled Area			
Hydric Soil Present? Yes   No	_		etland? Yes  No			
Wetland Hydrology Present? Yes   No	)	VV	itiiii a vv	etialid: 100 - 110 -		
Remarks:						
<b>EGETATION</b> -Use scientific names of plants. L	ist all spe	ecies in the	plot.	Dominance Test worksheet:		
Tree Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species		
1.	70 00101			That are OBL, FACW, or FAC:3 (A)		
2.				Total Number of Dominant Species Across All Strata: 3 (B)		
3.				Species Across All Strata:3(B)  Percent of dominant Species		
4.				That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.				Prevalence Index worksheet:		
Total Cover	r: <u>0</u>			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 0 x 1 = 0		
Rhododendron tomentosum	18	<b>✓</b>	FACW	FACW Species 19 x 2 = 38		
Betula nana	12	<u> </u>	FAC	FAC Species 62 x 3 = 186		
Vaccinium uliginosum	10		FAC	FACU Species <u>0</u> x 4 = <u>0</u>		
4. Empetrum nigrum			FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5. Vaccinium vitis-idaea	_ 7		FAC	Column Totals: <u>81</u> (A) <u>224</u> (B)		
6. Salix pulchra	_1_		FACW			
7	0			Prevalence Index = B/A =2.765_		
8	0			Hydrophytic Vegetation Indicators:		
9				✓ Dominance Test is > 50%		
10.				✓ Prevalence Index is ≤3.0		
Total Cover Herb Stratum 50% of Total Cover:		% of Total Cove	r: 11.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
4 O h'	25	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)		
Carex bigelowii  2.			170	Indicators of hydric soil and wetland hydrology must		
3.				be present, unless disturbed or problematic.		
4.						
5.				Plot size (radius, or length x width)		
6.	_			% Cover of Wetland Bryophytes (Where applicable)		
7				% Bare Ground15		
8	0			Total Cover of Bryophytes 80		
9						
10				Hydrophytic		
Total Cover		Vegetation Present? Yes  No				
	12.5 20%	o or rotal Cover	5	100 - 110 -		
50% of Total Cover:  Remarks:		6 of Total Cover	: 5	Present? Yes   No		

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SOIL Sampling Point: SW15\_T347\_01

	ion: (Describe to t	the depth nee	eded to docum	ent the inc		nfirm the abs		ators)			
Depth (inches)	Color (moi	ist)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-3			100						Peat		
3-8			100		-				Mucky Peat		
8-18		4/1	90	10YR	4/4	10		PL	Silty Clay		
	100.			101					one, and		
1 <sub>Tumpi</sub> C-Coi				- Matrix	2 Location	DI _Dor	- Lining DC	— Doot Cha	nnel. M=Matrix		
1 1 1		рерівноп.					_		Innei. Ivi=Ividu ix		
Hydric Soil I					tors for Pro		4		1		
	r Histel (A1)				ka Color Cha			<b>✓</b>	Alaska Gleyed Without Hu Underlying Layer	ie 5Y or Redder	
✓ Histic Epip	• ,				ska Alpine sv ska Redox W	-	•		Other (Explain in Remark	e)	
l — ' - '	Sulfide (A4)			Ald∋i	Ka Keuux vv	TITI 2.51 F	1ue		Other (Explain in Remain	>)	
_	k Surface (A12)								nary indicator of wetland h	ydrology,	
☐ Alaska Gle ✓ Alaska Red					appropriate						
	oox (A14) eyed Pores (A15	5)		4 Give o	details of col	lor change	e in Remark	s			
Restrictive Laye	er (if present):										
Type: silty	clay								Hydric Soil Present	? Yes ● No O	
Depth (inch	nes): 8										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:							Secondary Indic	cators (two or more are required)	
Primary Indica	ators (any one is	s sufficient)	<u> </u>						Water Stair	ned Leaves (B9)	
Surface W	. ,			In	undation Vis	sible on A	erial Imager	y (B7)	Drainage P	atterns (B10)	
	✓ High Water Table (A2)							ce (B8)		nizospheres along Living Roots (C3)	
✓ Saturation	. ,			∐ Ma	arl Deposits	(B15)				f Reduced Iron (C4)	
Water Ma					ydrogen Sulf				Salt Deposi		
	Deposits (B2)				ry-Season W					Stressed Plants (D1)	
☐ Drift Depo				☐ Ot	ther (Explain	ı in Remar	rks)			c Position (D2)	
	or Crust (B4)								✓ Shallow Aq	` '	
☐ Iron Depo	. ,								☐ Microtopog  ✓ FAC-neutra	raphic Relief (D4)	
	oil Cracks (B6)								▼ FAC-Heutra	rest (D5)	
Field Observa Surface Water		Yes O	No ●	De	epth (inches	c).					
			No O			•		\#/otlo	ad Understage Drocon	t? Yes • No O	
Water Table P				De	epth (inches	s): 8		Wetiai	nd Hydrology Presen	t? Yes ♥ No ○	
Saturation Pre (includes capi		Yes •	No O	De	epth (inches	s): 3					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:										<u>-</u>	

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