## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T308_05			
	gator(s): GVF		Landform (hill	side, terrac	e, hummocks etc.): Hillside			
-	elief (concave, convex, none): hummocky		Slope: 8.7		° Elevation:			
_	ion : Interior Alaska Mountains	Lat.: _			Long.: Datum: WGS84			
Soil Ma	p Unit Name:				NWI classification: PSS1/3B			
Are V	egetation . , Soil . , or Hydrology	significantly naturally pro wing sam	disturbed?	(If nee	(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○  oded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes 🏵 No 🤇	)	_					
	Hydric Soil Present? Yes ● No 🤇				the Sampled Area			
	Wetland Hydrology Present? Yes   No	)	W	ithin a W	etland? Yes ◉ No ○			
Rema	rks:							
	TATION - Use scientific names of plants. L	ist all spec Absolute % Cover	Cies in the  Dominant Species?	plot. Indicator Status	Dominance Test worksheet:  Number of Dominant Species			
1.	Picea mariana	_10	<b>✓</b>	FACW	That are OBL, FACW, or FAC:  8 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 8 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	10			Total % Cover of: Multiply by:			
Sap	ing/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover	2	OBL Species 0.1 x 1 = 0.1			
					FACW Species 55 x 2 = 110			
1.	Picea mariana	18	<b>V</b>	FACW				
2.	Rhododendron tomentosum		<b>✓</b>	FACW				
3.	Vaccinium uliginosum		<b>V</b>	FAC				
4.	Betula nana			FAC	UPL Species			
	Salix pulchra			FACW	Column Totals: <u>89.3</u> (A) <u>212.8</u> (B)			
	Vaccinium vitis-idaea			FAC	Prevalence Index = B/A =2.383_			
	Empetrum nigrum	3		FAC				
8.	Rhododendron groenlandicum			FAC	Hydrophytic Vegetation Indicators:			
9.	Vaccinium oxycoccos	0.1		OBL	✓ Dominance Test is > 50%			
10.					✓ Prevalence Index is ≤3.0			
Her	Total Cover <u>50% of Total Cover:</u>		_	: _13.02	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Rubus chamaemorus	5	<b>~</b>	FACW	Problematic Hydrophytic Vegetation (Explain)			
2.	Carex bigelowii	5	<b>~</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus	4	<b>~</b>	FACW	be present, unless disturbed or problematic.			
4.	Calamagrostis canadensis	0.1		FAC	Plot size (radius, or length x width)			
5.	Orthilia secunda	0.1		FACU	% Cover of Wetland Bryophytes			
6.		0			(Where applicable)			
7.					% Bare Ground3			
8.					Total Cover of Bryophytes 80			
9.		0						
10.					Hydrophytic			
	Total Cover				Vegetation Veg (a) No (			
	50% of Total Cover:	7.1 20%	of Total Cover	2.84	Present? Yes   No			
Rem	arks: bare ground litter and trace standing water. b	ryophytes ar	re sphagnum	and feather	mosses.			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15\_T308\_05

0-3 3-6 6-9 9-15									Peat		
6-9											
									Mucky Peat		
9-15									Muck	w/ mineral content	
	10GY	5/1	80	5YR	4/4	20	С	PL	Sandy Clay Loam	3+% oxidized rhizospheres along liv roots	
15-24	5GY	4/1	100						Clay Loam	few gravel	
										_	
rpe: C=Con	centration. D	=Depletion	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix		
lric Soil In	dicators:				tors for Pro			oils: <sup>3</sup>			
Histosol or Histel (A1)				Alas	☐ Alaska Color Change (TA4) ☐				Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipe	edon (A2)			Alas	Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen S	Sulfide (A4)			Alas	ska Redox W	ith 2.5Y H	lue		Other (Explain in Rema	rks)	
Thick Dark	Surface (A12	)		_							
Alaska Gley	/ed (A13)				indicator of I n appropriate				nary indicator of wetland	hydrology,	
Alaska Red	ox (A14)			anu ai	і арріоріїац	: iaiiusca <sub>t</sub>	e position	must be pre	esent		
	ed Pores (A1	5)		4 Give	details of co	lor chang	e in Remarl	ks			
rictive Lave	r (if present):										
-	ly clay loam								Hydric Soil Presen	t? Yes ● No ○	
ope. sand Depth (inche									nyunc son Presen	tr res © No C	
ocpui (ilicin	C3). 3										
DROLOG	GY										
land Hydr	ology Indica	ators:							_Secondary Inc	licators (two or more are required	
nary Indicat	ors (any one	is sufficient	:)						Water Sta	ained Leaves (B9)	
Surface Wa	ater (A1)			☐ Ir	nundation Vi	sible on A	erial Image	ery (B7)	☐ Drainage	Patterns (B10)	
High Wate	r Table (A2)			☐ S	parsely Vege	tated Cor	ncave Surfa	ce (B8)	<b>✓</b> Oxidized	Rhizospheres along Living Roots (	
✓ Saturation (A3)				Marl Deposits (B15)					Presence	of Reduced Iron (C4)	
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					Salt Depo	osits (C5)	
Sediment Deposits (B2)					ry-Season W					or Stressed Plants (D1)	
Drift Deposits (B3)					-					hic Position (D2)	
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks) ☐ Geomorphic Position (D2) ☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3)									` '		
☐ Iron Deposits (B5) ☐ Microtopographic Rel											
	oil Cracks (B6)	1							✓ FAC-neuti		
d Observat	• • • • • • • • • • • • • • • • • • • •	<u> </u>							▼ TAC Hedd	ai rest (D3)	
face Water		Yes C	No •	D	epth (inches	.).					
			No O			•					
ter Table Pr uration Pres				D	epth (inches	s): 6		Wetlai	nd Hydrology Prese	nt? Yes ● No ○	
cludes capill		Yes •	No O	D	epth (inches	5): 4					
ribe Record	ded Data (stre	eam gauge,	monitor we	ell, aerial ¡	photos, prev	ious inspe	ection) if av	ailable:			
narks:											

U.S. Army Corps of Engineers Alaska Version 2.0