## WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Aug-15								
pplicant/Owner: Alaska Energy Authority			-	Sampling Point: SW15_T303_09								
investigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): Hillside												
ocal relief (concave, convex, none): hummocky		Slope:	% /	° Elevation:								
	Lat.:											
	Lal											
oil Map Unit Name:	2 0	NWI classification: Upland										
Are Vegetation . , Soil . , or Hydrology . natu	ificantl	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes  No	Is the Sampled Area											
Hydric Soil Present? Yes No	within a Wetland? Yes O No •											
Wetland Hydrology Present? Yes ○ No ●	within a v			vending? Tes a no a								
VEGETATION - Use scientific names of plants. List all species in the plot.  Absolute Dominant Indicator Dominance Test worksheet:												
	Cover		Indicator Status	Number of Dominant Species								
1. Picea mariana	30	<b>✓</b>	FACW	That are OBL, FACW, or FAC:  4 (A)								
2.	0			Total Number of Dominant Species Across All Strata: 4 (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:	30			Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover: 15	_ 20%	of Total Cover:	6	OBL Species0 x 1 =0								
Betula nana	15	<b>✓</b>	FAC	FACW Species 45.1 x 2 = 90.2								
2 Vaccinium uliginosum	15	<u></u>	FAC	FAC Species 57.3 x 3 = 171.9								
3. Empetrum nigrum	15	<u> </u>	FAC	FACU Species 1.1 x 4 = 4.400								
Rhododendron tomentosum	10		FACW	UPL Species 0 x 5 = 0								
5. Vaccinium vitis-idaea	10		FAC	Column Totals: <u>103.5</u> (A) <u>266.5</u> (B)								
6. Picea mariana	5		FACW									
7. Betula glandulosa	2		FAC	Prevalence Index = B/A = 2.575								
8. Rosa acicularis	1		FACU	Hydrophytic Vegetation Indicators:								
9. Arctous ruber	0.1		FAC	✓ Dominance Test is > 50%								
10. Salix pulchra	0.1		FACW	✓ Prevalence Index is ≤3.0								
Total Cover: 50% of Total Cover: 36.6	14.64	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)										
1. Equisetum arvense	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)								
2. Petasites frigidus	0.1		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
3. Calamagrostis canadensis	0.1		FAC	be present, unless disturbed or problematic.								
4	0			Plot size (radius, or length x width)								
5				% Cover of Wetland Bryophytes								
6	0			(Where applicable)								
7	0			% Bare Ground								
8	0			Total Cover of Bryophytes60								
9.	0											
40	0			Hydrophytic								
10.				VOGOTOTION								
Total Cover: 50% of Total Cover: 0.15	0.3	of Total Cover	0.06	Vegetation Present? Yes  No								

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SOIL Sampling Point: SW15\_T303\_09

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)  Matrix Redox Features													
Depth ————							. 2	Texture	Remarks				
	Color (moi	st)	<u>%</u>	Color (moist)	_%_	Type <sup>1</sup>	_Loc_2	rexture					
0-5									fibric organics				
5-14	10YR	3/4						Sandy Loam					
			— –										
	_												
-					-								
¹Type: C=Cor	<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil Ir	ndicators:			Indicators for Pro	oblemati	c Hvdric S	oils: <sup>3</sup>						
	Histel (A1)			Alaska Color Ch		4	oo.	Alaska Gleyed Without H	ue EV or Pedder				
	. ,			Alaska Alpine sv		•		Underlying Layer	Je 51 oi Reudei				
Histic Epip				Alaska Redox W	-	•		Other (Explain in Remarks)					
	Sulfide (A4)			☐ AldSka Keuux vi	/IUI Z.ST I	lue		Other (Explain	3)				
	Surface (A12)			<sup>3</sup> One indicator of	hvdrophyt	ric vegetatic	on, one prim	nary indicator of wetland h	ovdrology.				
Alaska Gle				and an appropriate					74.0.0577				
Alaska Red	,			4 Give details of co	lor chang	a in Damarl	ve.						
Alaska Gle	yed Pores (A15	)		- Give details of co	ioi change	e iii Keiliaik							
Restrictive Laye	er (if present):												
Type:								Hydric Soil Present	? Yes ○ No •				
Depth (inch	nes):								ļ				
no hydric soil in	ndicators												
HYDROLO	GY												
Wetland Hydr		tors:						Secondary India	cators (two or more are required)_				
Primary Indicat									ned Leaves (B9)				
Surface W		,		Inundation Vi	sible on Δ	erial Image	ery (R7)						
	. ,					-	, , ,	_	hizospheres along Living Roots (C3)				
	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8☐ Saturation (A3) ☐ Marl Deposits (B15)								of Reduced Iron (C4)				
Water Mai	. ,			Hydrogen Sul	,	(C1)		Salt Depos	` '				
	Deposits (B2)								Stressed Plants (D1)				
Drift Depo				☐ Dry-Season W☐ Other (Explain					ic Position (D2)				
	or Crust (B4)			□ Other (Explain	i iii Keiiia	rks)			juitard (D3)				
☐ Iron Depo	` ,							_	graphic Relief (D4)				
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)				
Field Observa		w - O	(										
Surface Water	Present?	Yes O	_	Depth (inches	s):								
Water Table P	resent?	Yes 🔾	No 🖭	Depth (inches	s):		Wetlar	nd Hydrology Presen	t? Yes O No 🗨				
Saturation Pre		Yes 🔾	No 💿	Depth (inches	c).								
(includes capil				' '									
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													

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