## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydro	electric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	30-Aug-15			
Applica	int/Owner: Alaska Energy Aut	thority				Sampling Point: S	W15_T342_07			
	gator(s): AFW			_andform (hills	side, terrac	e, hummocks etc.): Hillside				
-	elief (concave, convex, none):	hummocky		Slope: 10.5						
	,		Lat.:	-1010			Datum: WGS84			
_	ion : Interior Alaska Mountains	<u> </u>								
	p Unit Name:				<u> </u>	NWI classification: Upland	<u>d</u>			
Are Ve	egetation , Soil .	, or Hydrology	ignificantly naturally pro	disturbed?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ided, explain any answers in Remarks.) s, transects, important features,				
				pinig ponit	locations	s, transects, important reatures,	GIO.			
	Hydrophytic Vegetation Present			le	the Sam	unled Area				
	Hydric Soil Present?	Yes O No 💿			Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present?	Yes ○ No ●		WI	illilli a vv	etialiu ?				
Rema	arks:									
VEGE	ETATION - Use scientific n	ames of plants. Lis	st all spe	cies in the		Dominance Test worksheet:				
	e Stratum_		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	4 (A)			
	Picea glauca			<b>~</b>	FACU	Total Number of Dominant				
2.						Species Across All Strata:	6 (B)			
3.						Percent of dominant Species	CC 704 (A/D)			
4.						That Are OBL, FACW, or FAC:	66.7% (A/B)			
5.		Tatal Carren				Prevalence Index worksheet:				
		Total Cover:		-f T-t-1 C		Total % Cover of: Multiply	by:			
Sapi	ling/Shrub Stratum	60% of Total Cover:	10 20% (	of Total Cover:	4	OBL Species x 1 =	0			
1.	Vaccinium uliginosum		20	✓	FAC	FACW Species 30 x 2 =	60			
2.	Salix pulchra		15	✓	FACW	FAC Species x 3 =	210			
3.	Betula glandulosa		15	<b>✓</b>	FAC	FACU Species 33 x 4 =	132			
4.	Vaccinium vitis-idaea		12		FAC	UPL Species 10 x 5 =	50			
5.	Empetrum nigrum		10		FAC	Column Totals: <u>143</u> (A)	452 (B)			
6.	Salix pseudomonticola		5		FAC	Prevalence Index = B/A =	3.161			
	Rhododendron tomentosum		5		FACW	Trevalence mack - B/A -	5.101			
	Alnus viridis ssp. crispa		5		FAC	Hydrophytic Vegetation Indicators:				
			3		FACU	✓ Dominance Test is > 50%				
10.	Rosa acicularis		3		FACU	Prevalence Index is ≤3.0				
Herl	b Stratum_	Total Cover:			: 18.6	Morphological Adaptations (Provide Remarks or on a separate sheet)	supporting data in			
1.	Carex macrochaeta		10	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation				
2.	Boykinia richardsonii		10	<b>✓</b>	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydr				
3.	-				FACU	be present, unless disturbed or problemat	ic.			
1					FAC	Plot size (radius, or length x width)	_10m			
	Poa pratensis ssp. alpigena				FACU	% Cover of Wetland Bryophytes				
						(Where applicable)				
						% Bare Ground	_30			
						Total Cover of Bryophytes	_65			
			0							
10.						Hydrophytic				
		<b>Total Cover:</b> 50% of Total Cover:		of Total Cover:	6	Vegetation Present? Yes  No				
			20/01	o. rotal COVEI.		1				
Rema	arks: arctostaphylos rubra 3%		<u>15</u> 20% (	or rotal cover:	6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

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SOIL Sampling Point: SW15\_T342\_07

Profile Descript  Depth	tion: (Describe to	the depth r	needed to docur	ment the ir		nfirm the ab		cators)		
(inches)	Color (me	oist)	%	Color (ı	moist)	%	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks
0-3			100						Fibric Organics	
3-6			100						Hemic Organics	•
6-17	10YR	3/2	70	2.5Y	3/3	30		M	Silt Loam	2.5y sandy loam interbedded w silt loam and orgs
Type: C=Co	ncentration. D	=Depletior	n. RM=Reduc	ed Matrix	<sup>2</sup> Location	n: PL=Pore	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil 1	Indicators:			Indica	tors for Pr	oblematio	c Hvdric S	oils: <sup>3</sup>		
_	or Histel (A1)				ska Color Ch				Alaska Gleyed Without H	ue 5Y or Redder
	pedon (A2)			_	ska Alpine s				Underlying Layer	de 51 of Redder
=	Sulfide (A4)			Alas	ska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	ks)
_ ′ ′	k Surface (A12	2)								
Alaska Glo	eyed (A13)							on, one prin must be pre	nary indicator of wetland hesent	nydrology,
Alaska Re	edox (A14)						•			
Alaska Glo	eyed Pores (A1	5)		4 Give	details of co	olor change	e in Remari	KS		
Restrictive Lay	er (if present):									
Type:									<b>Hydric Soil Present</b>	? Yes O No 💿
Depth (inc	thes):									
Remarks:										
no hydric soil i	indicators									
HYDROLO	OGY									
Wetland Hyd	Irology Indica	ators:							_Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one	is sufficier	nt)						Water Stai	ined Leaves (B9)
Surface V	Water (A1)			Ir	nundation V	isible on A	erial Image	ery (B7)	☐ Drainage I	Patterns (B10)
High Water Table (A2) Sparsely Vegetated Concave S						ncave Surfa	ice (B8)	Oxidized R	chizospheres along Living Roots (C3)	
Saturatio	n (A3)			M	arl Deposits	s (B15)				of Reduced Iron (C4)
☐ Water Marks (B1) ☐ Hydrogen Sulfide C						lfide Odor	(C1)		Salt Depos	
Sediment	t Deposits (B2)			□ D	ry-Season V	Vater Tabl	e (C2)		Stunted or	Stressed Plants (D1)
Drift Dep	osits (B3)			□ o	ther (Explai	n in Rema	rks)		Geomorph	ic Position (D2)
Algal Mat	t or Crust (B4)								Shallow Ad	quitard (D3)
☐ Iron Dep	osits (B5)								Microtopo	graphic Relief (D4)
Surface S	Soil Cracks (B6)	)							FAC-neutra	al Test (D5)
Field Observ	ations:									
Surface Wate	er Present?	Yes	○ No ●	D	epth (inche	s):				
Water Table	Present?	Yes	○ No ●	D	epth (inche	s):		Wetla	nd Hydrology Preser	ıt? Yes ○ No •
Saturation Pr (includes cap		Yes C	No ●	D	epth (inche	s):				
Describe Reco	rded Data (stre	eam gauge	e, monitor we	ll, aerial ¡	ohotos, prev	ious inspe	ection) if av	ailable:		
Remarks:										
no wetland hy	drology indicat	ors								

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