## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 08-Jul-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T130_01		
	gator(s): JGK	Landform (hill	Iside, terrace, hummocks etc.): Swale				
	relief (concave, convex, none): hummocky		Slope: 5.2		O ° Elevation: 1095		
	gion: Interior Alaska Mountains		63.04227078				
		Lat	03.04227076				
	ap Unit Name:		• V	<u> </u>	NWI classification: Upland		
Are \		significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes ● No C	)			<u> </u>		
	Hydric Soil Present? Yes No •		Is	the Sam	pled Area		
	~ · · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ○ No ●				
		,					
	Sloping from the sides  ETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.			
					Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	<u> </u>	0			That are OBL, FACW, or FAC:5(A)		
2.			Ä		Total Number of Dominant Species Across All Strata: 6 (B)		
3.		0	$\Box$				
4.			$\bar{\sqcap}$		Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)		
5.							
	Total Cover:		<del></del>		Prevalence Index worksheet:  Total % Cover of: Multiply by:		
San	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	001.0		
					OBL Species 0 x1 = 0 FACW Species 45 x2 = 90		
1.	Salix pulchra	45	<b>✓</b>	FACU			
2.	Spiraea stevenii	15	<b>✓</b>	FACU	FAC Species 93.1 x 3 = 279.3 FACU Species 20.1 x 4 = 80.40		
3.	Vaccinium uliginosum	15	<b>✓</b>	FAC	UPL Species 3 x 5 = 15		
4. 5.	Empetrum nigrum	<u>10</u> 5		FAC FAC			
6.	Betula nana Vaccinium vitis-idaea	3		FAC	Column Totals: <u>161.2</u> (A) <u>464.7</u> (B)		
7.	Picea glauca	0.1		FACU	Prevalence Index = B/A =		
	Arctostaphylos rubra	0.1		FAC	Hydrophytic Vogotation Indicators		
9.		0	П	TAC	Hydrophytic Vegetation Indicators:  Dominance Test is > 50%		
10.			П		✓ Prevalence Index is ≤3.0		
10.	Total Cover:				Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Her	<b>b Stratum</b> 50% of Total Cover:	33.5	of Total Cover	18.64	Remarks or on a separate sheet)		
1.	Sedum rosea	10		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	Polemonium acutiflorum		<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Artemisia furcata			UPL	be present, unless disturbed or problematic.		
4.	Rubus arcticus (IAM)	-		FACU	Plot size (radius, or length x width) 10m		
5.	Festuca altaica		<b>✓</b>	FAC	Plot size (radius, or length x width) 10m   % Cover of Wetland Bryophytes 2		
6.	Carex bigelowii	20	<b>✓</b>	FAC	(Where applicable)		
7.					% Bare Ground		
					Total Cover of Bryophytes 60		
9.							
10.					Hydrophytic		
1	Total Cover:			Vegetation Present? Yes ● No ○			
	50% of Total Cover:		- £ T - / ! ^	13.6			

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SOIL Sampling Point: SW13\_T130\_01

Profile Descripti	ion: (Describe to t	the denth ne	eded to docu	ment the inc	dicator or con	firm the ah	sence of indic	rators)	•	, rome. 01113_1130_01		
Depth		datrix		more are are		ox Featu						
(inches)	Color (mo	ist)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2									Fibric Organics			
2-3									Hemic Organics	Some silt		
3-9	2.5Y	3/2	60	10YR	3/6	40		M	Silty Clay Loam	Some angular gravel		
9-14	2.5Y	3/2	70	2.5YR	3/6	30		PL	Clay Loam	Higher coarse angular cobble % 2-5 in dia		
									·			
								-	-	. ———		
										. ———		
<sup>1</sup> Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ed Matrix	<sup>2</sup> Location:	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alasl	ka Color Cha	ange (TA	4) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alasl	ka Alpine sv	vales (TA!	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alasi	ka Redox W	ith 2.5Y F	Hue		Other (Explain in Remark	(S)		
Thick Dark	Surface (A12)			3.0 :-						duala a		
Alaska Gle	eyed (A13)				ndicator of r appropriate				mary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)						•	•				
Alaska Gle	eyed Pores (A15	5)		*Give t	details of co	ior change	e ili Kemark	S				
Restrictive Laye	er (if present):											
Type: froz	en								<b>Hydric Soil Present</b>	? Yes ○ No •		
Depth (inch	nes): 14											
Remarks:												
HYDROLO	C.A.											
Wetland Hyd		tors:		-					Secondary Indi	cators (two or more are required)		
_	tors (any one i		t)						Water Stained Leaves (B9)			
Surface W	/ater (A1)			In	undation Vis	sible on A	erial Image	rv (B7)	Drainage Patterns (B10)			
✓ High Wate	er Table (A2)				arsely Vege		_		·			
✓ Saturation	` '				arl Deposits			()		of Reduced Iron (C4)		
☐ Water Ma	rks (B1)				drogen Sulf		(C1)		Salt Depos	sits (C5)		
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo					her (Explain					ic Position (D2)		
. —	or Crust (B4)			_			,		✓ Shallow Ac	quitard (D3)		
☐ Iron Depo	sits (B5)								Microtopog	graphic Relief (D4)		
Surface S	oil Cracks (B6)								_	al Test (D5)		
Field Observa	ations:											
Surface Water	r Present?	Yes 🤇	No 💿	De	epth (inches	;):						
Water Table P	Present?	Yes 🤄	No O	D€	epth (inches	s): 11		Wetla	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pre	esent?	Voc (	No O		epth (inches	,						
(includes capi	llary fringe)	165	NO C		spur (inches	.): 3 						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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