## WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroelectric Project		Bo	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13			
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T110_06			
	gator(s): JER		L	Landform (hillside, terrace, hummocks etc.): Knob  Slope: 1.7 % / 1.0 ° Elevation: 948					
	relief (concave, convex, none): convex								
	,				_				
	gion : Interior Alaska Mountains	Lo	at <u>6</u>	2.760114074					
	ap Unit Name:					NWI classification: PSS1B			
Are \	matic/hydrologic conditions on the site typical for this /egetation  , Soil  , or Hydrology   /egetation  , Soil  , or Hydrology    MARY OF FINDINGS - Attach site map sho  Hydrophytic Vegetation Present? Yes  No	signifion natura owing	cantly Illy pro	disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○  ded, explain any answers in Remarks.)  s, transects, important features, etc.			
	(a)			Is	the Sam	pled Area			
				within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes   No								
	ETATION - Use scientific names of plants.		•			Dominance Test worksheet:			
Tro	e Stratum	Abso % C		Dominant Species?	Indicator Status	Number of Dominant Species			
1.	e Stratum_		0		<u> </u>	That are OBL, FACW, or FAC:6(A)			
2.			0			Total Number of Dominant			
3.			0			Species Across All Strata: 6 (B)			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			0						
	Total Cove	 er:	0			Prevalence Index worksheet:  Total % Cover of: Multiply by:			
Sar	oling/Shrub Stratum 50% of Total Cover:	0	20% (	of Total Cover:	0	0.01.0			
						OBL Species 0 x1 = 0 FACW Species 43 x2 = 86			
1.	Picea glauca		1		FACU	FAC Species 122 x 3 = 366			
2. 3.	Betula glandulosa		15	<b>✓</b>	FAC FAC	FACU Species 2 x 4 = 8			
4.	Betula nana Vaccinium uliginosum		40 25	<b>✓</b>	FAC	UPL Species 0 x 5 = 0			
5.	Vaccinium vitis-idaea		10		FAC				
6.	Salix pulchra		25		FACW	Column Totals: <u>167</u> (A) <u>460</u> (B)			
7.	Ledum decumbens		10	Ē	FACW	Prevalence Index = B/A = 2.754			
8	Empetrum nigrum		25	<b>✓</b>	FAC	Hydrophytic Vegetation Indicators:			
9	Salix arbusculoides		5		FACW	Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
	Total Cover rb Stratum 50% of Total Cover:	_	. <u>56</u> 20%	of Total Cover	31.2	☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii		5	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Rubus chamaemorus		3	<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Poa arctica		2		FAC	be present, unless disturbed or problematic.			
4.	Spinulum annotinum		1		FACU	Plot size (radius, or length x width) 10m			
5.			0			Plot size (radius, or length x width)			
			0			(Where applicable)			
			0			% Bare Ground 0			
8.			0			Total Cover of Bryophytes <u>85</u>			
9.			0						
10.			0			Hydrophytic			
	<b>Total Cove</b> 50% of Total Cover:		11 20% c	of Total Cover:	2.2	Vegetation Present? Yes ● No ○			

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SOIL Sampling Point: SW13 T110 06

Profile Descript	tion: (Describe to t	the depth no	eeded to docu	ment the inc	dicator or cor	ifirm the ab	sence of indi-	cators)		
Depth		Matrix			Red	lox Featu			-	
(inches)	Color (moi	st)	<u>%</u>	Color (m	noist)	<u>%</u>	Type <sup>1</sup>	<u>Loc</u> <sup>2</sup>	Texture	Remarks
0-3			100						Fibric Organics	
3-13	10Y	4/1	65	10YR	4/6	35	C	PL	gravel loam	
13-19	5Y	4/3	100						gravel loam	
					-					
								-	-	
					- ———					
¹Type: C=Co	ncentration. D=	Depletion	. RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix	
Hydric Soil I	Indicators:			Indicat	ors for Pro	oblemati	ic Hydric S	oils:		
Histosol o	or Histel (A1)			Alas	ska Color Ch	ange (TA	.4)		Alaska Gleyed Without Hu	ue 5Y or Redder
	pedon (A2)			Alas	ska Alpine sv	wales (TA	.5)	_	Underlying Layer	
	Sulfide (A4)			Alas	ska Redox W	/ith 2.5Y I	Hue		Other (Explain in Remark	5)
_ ` `	k Surface (A12)									
	eyed (A13)								mary indicator of wetland hy	ydrology,
✓ Alaska Re							pe position i	•	esent	
_	eyed Pores (A15	j)		4 Give o	details of co	lor chang	ge in Remarl	ks		
	ver (if present):	<u>-</u>								
-	er (II present).								Urdrie Sail Brosant?	? Yes ● No ○
Type:	·hacl:								Hydric Soil Present?	r res e no e
Depth (incl	nes):									
HYDROLO	 IGY									
	Irology Indicat	tors:							Secondary Indic	cators (two or more are required)
_	ators (any one is		t)							ned Leaves (B9)
Surface V	Nater (A1)			In	undation Vi	sible on A	Aerial Image	erv (B7)		atterns (B10)
l —	ter Table (A2)						ncave Surfa			nizospheres along Living Roots (C3)
✓ Saturatio					arl Deposits			(22,		f Reduced Iron (C4)
☐ Water Ma	` '				ydrogen Sulf	. ,	· (C1)		Salt Deposi	` ,
	t Deposits (B2)				ry-Season W					Stressed Plants (D1)
	osits (B3)				ther (Explair				✓ Geomorphic	` '
	t or Crust (B4)				116. (				Shallow Aqu	` '
☐ Iron Depo									_	raphic Relief (D4)
	Soil Cracks (B6)								✓ FAC-neutral	
Field Observ				-						
Surface Wate		Yes C	No ●	Dr	epth (inches	s):				
Water Table I			No O			•		Wetla	nd Hydrology Present	t? Yes • No O
Saturation Pro				De	epth (inches	i): 15		W Clia	ila fiyarology Fresein	.f 165 0 NO 0
(includes cap		Yes 🖲	No O	De	epth (inches	3): 1				
Describe Reco	rded Data (strea	ım gauge,	, monitor we	اا, aerial p	hotos, prev	ious inspe	ection) if av	ailable:		
Remarks:										
Nemano.										

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