## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 02-Aug-13						
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T162_02						
	gator(s): WAD, RWM		Landform (hillside, terrace, hummocks etc.): hillside								
	relief (concave, convex, none): flat		Slope:	% / 10.	-						
	gion : Interior Alaska Mountains	l at ·	63.127549648 Long.: -148.104935645 Datum: NAD83								
		Lut	03.12734304	<u> </u>							
	ap Unit Name:		0 V	No ○	NWI classification: Upland						
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sho	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	No Oeded, explain any answers in Remarks.)						
Hydrophytic Vegetation Present? Yes No											
	Hydric Soil Present? Yes O No		within a Wetland? Yes ○ No ●								
	Wetland Hydrology Present? Yes O No	•	W	itiiiii a vv	retiality its a no a						
<b>VEG</b> I	<b>ETATION</b> - Use scientific names of plants. L	ist all spe		plot.	Dominance Test worksheet:						
Tre	e Stratum	% Cover		Status	Number of Dominant Species						
1.		0	. $\square$		That are OBL, FACW, or FAC: 2 (A)						
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)						
3.					Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)						
5.		0			Prevalence Index worksheet:						
	Total Cove	r: <u> </u>			Total % Cover of: Multiply by:						
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species0 x 1 =0						
1	Salix polaris	7	<b>✓</b>	FACW	FACW Species 7 x 2 = 14						
2.					FAC Species 3.2 x 3 = 9.6						
3.		_			FACU Species x 4 =20.4						
4.		_			UPL Species 3.1 x 5 = 15.5						
5.					Column Totals: <u>18.4</u> (A) <u>59.5</u> (B)						
6.											
7.		0			Prevalence Index = B/A = 3.234						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0	. $\square$		✓ Dominance Test is > 50%						
10.		0	. $\square$		Prevalence Index is ≤3.0						
Не	Total Cover 50% of Total Cover: _		% of Total Cove	r: <u>1.4</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)						
1.	Oxyria digyna	5	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
2.	Poa arctica		<b>V</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3.	Antennaria monocephala			UPL	be present, unless disturbed or problematic.						
4.	Taraxacum alaskanum			UPL	Plot size (radius, or length x width)						
5.	Carex fuliginosa			FAC	% Cover of Wetland Bryophytes						
6.	Minuartia arctica			UPL	(Where applicable)						
7.	Stellaria alaskana			UPL	% Bare Ground						
8.	Claytonia sarmentosa	0.1		FACU	Total Cover of Bryophytes						
9.	Luzula arcuata	$-\frac{0.1}{0}$		FACU							
4.0		Hydrophytic									
10.	Total Carra	P. 11 /									
10.	<b>Total Cove</b> 50% of Total Cover:		6 of Total Cover	: 2.28	Vegetation Present? Yes ● No ○						

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SOIL Sampling Point: SW13\_T162\_02

Profile Descripti		the depth ne	eded to docum	nent the indicator or co	nfirm the ab		ators)				
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-0.5			100		_			Fibric Organics			
0.5-15	10YR	3/4	100		-			Sand			
					- ——						
-							-				
	-						-				
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location		_		nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemation	c Hydric Sc	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4) <sup>4</sup>		Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	s)		
Thick Dark	c Surface (A12)										
Alaska Gle	eyed (A13)			One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)				·	·		ESCIT			
	eyed Pores (A15	5)		<sup>4</sup> Give details of co	olor change	e in Remark	is				
Restrictive Laye	er (if present):							<b></b>			
Type:								Hydric Soil Present?	? Yes ○ No •		
Depth (inch	nes):										
				_							
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient	)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V	isible on A	erial Imager	ry (B7)		atterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)		
	Saturation (A3)				s (B15)				f Reduced Iron (C4)		
Water Ma				Hydrogen Su	lfide Odor	(C1)		Salt Deposi			
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)		
Drift Depo				Other (Explai	n in Rema	rks)			c Position (D2)		
	or Crust (B4)							☐ Shallow Aq			
☐ Iron Depo	. ,							_	raphic Relief (D4)		
	oil Cracks (B6)						1	☐ FAC-neutra	Test (D5)		
Field Observa		C	No •								
Surface Water				Depth (inche	s):						
Water Table P	Present?	Yes 🔾	No 💿	Depth (inche	:s):		Wetla	nd Hydrology Present	t? Yes ○ No •		
Saturation Pre (includes capil		Yes O	No •	Depth (inche	:s):						
Describe Recor	ded Data (strea	am gauge,	monitor well	l, aerial photos, prev	/ious inspe	ection) if ava	ailable:				
Remarks:											
no hydrology indicators observed											

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