## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	1	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date:	25-Jun-12
Applica	ant/Owner: Alaska Energy Authority				Sampling Point:	SW12_T28_01
	gator(s): JGK	ee, hummocks etc.): Bluff				
-	relief (concave, convex, none): hummocky		Slope:	% / 2.2		
	gion : Interior Alaska Mountains	l at ·	- · <u> </u>			Datum: NAD83
_		Lat	02.00550012	220		
	p Unit Name:		0 V-	s • No O	NWI classification: Uplar	10
Are V	matic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology regetation , Soil , or Hydrology	significant naturally p nowing sar	tly disturbed? problematic?	Are "N (If nee	eded, explain any answers in Remarks.	
	Hydrophytic Vegetation Present? Yes   No			a tha Cam	unlad Araa	
	Hydric Soil Present? Yes O No		pled Area Vetland?  Yes O No  O			
	Wetland Hydrology Present? Yes O No	•	V	vithin a W	etiand? Tes UNU @	
Rema	ETATION -Use scientific names of plants.	List all sp	ecies in the	e plot.		
		Absolute	e Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC:	2 (4)
1.		0			Total Number of Dominant	(A)
2.		0			Species Across All Strata:	(B)
3.		0			Percent of dominant Species	
4.		0			That Are OBL, FACW, or FAC:	100.0% (A/B)
5.	Takal Car	0			Prevalence Index worksheet:	
_	Total Cov		_		Total % Cover of: Multiply	
Sap	ling/Shrub Stratum 50% of Total Cover:	020%	% of Total Cove	er: <u>0</u>	OBL Species 0 x 1 =	
1.	Picea mariana	1		FACW	FACW Species 11 x 2 =	
2.	Betula nana			FAC	FAC Species 47 x 3 =	
3.	Empetrum nigrum	15_		FAC	FACU Species 10 x 4 =	
4.	Vaccinium uliginosum	10	- 📙	FAC	UPL Species0 x 5 =	0
5.	Vaccinium vitis-idaea	2	-	FAC	Column Totals: 68 (A)	<u>203</u> (B)
6.	Loiseleuria procumbens	5	-	FACU	Prevalence Index = B/A =	2.985
7.	Rhododendron tomentosum		-	FACW		
_	Arctous alpinus	$-\frac{5}{0}$	- 📙	FACU	Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%	
			-		✓ Prevalence Index is ≤3.0	
	Total Cov  b Stratum 50% of Total Cover:		- - % of Total Cov	er: <u>13.6</u>	Morphological Adaptations <sup>1</sup> (Provide Remarks or on a separate sheet)	e supporting data in
1.		0			Problematic Hydrophytic Vegetation	1 (Explain)
					<sup>1</sup> Indicators of hydric soil and wetland hyd	
					be present, unless disturbed or problema	tic.
					Plot size (radius, or length x width)	10m
					% Cover of Wetland Bryophytes	
		•			(Where applicable)	U
7.			- 📃		% Bare Ground	5
8.		0	-		Total Cover of Bryophytes	2
9.		0	-			
10.			_		Hydrophytic	
	<b>Total Cov</b> 50% of Total Cover:		_		Vegetation Present?  Yes ● No ○	)
	50% Of LOTAL COVER.		∞ OL LOTAL COVE	er: 0		

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SOIL Sampling Point: SW12\_T28\_01

Profile Description		the depth no	eeded to docu	ment the in		firm the ab		ators)				
Depth (inches)	Color (mo		 %	Color (n		%	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks		
0-2	COIOI (IIIC	, isc,	100	COIOI (II	ioist)		Туре	LUC	Hemic Organics	10 % roots		
	7 EVD	2 5/2							Sandy Loam	-		
2-3		2.5/3							·	fine to coarse sand		
3-10	10YR	3/6	97	2.5Y	4/4	3		М	Fine Loamy Sand	top of layer, sub-ang grvl. fine to coarse san		
-			-									
-												
¹Type: C=Con	 icentration. D	=Depletion	. RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil In	ndicators:			Indicat	ors for Pro	blematic	c Hydric So	oils: <sup>3</sup>				
	Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	, ,				ka Alpine sv				Underlying Layer			
	Sulfide (A4)				ka Redox W	-	•		Other (Explain in Remark	(S)		
	Surface (A1)	)										
Alaska Gle	•	,							mary indicator of wetland h	ydrology,		
Alaska Red	, , ,			and an	appropriate	e landscap	e position n	nust be pr	resent			
	yed Pores (A1	5)		4 Give	details of co	lor change	e in Remark	s				
		-										
Restrictive Laye	er (if present):									0 0		
Type:	,								Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies):											
Remarks:												
HYDROLO												
Wetland Hydr	ology Indica	itors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficien	t)						Water Stained Leaves (B9)			
Surface W	ater (A1)			In	undation Vi	sible on A	erial Imager	y (B7)		Patterns (B10)		
High Wate	er Table (A2)			☐ Sp	arsely Vege	tated Cor	ncave Surfac	e (B8)	[B8) Oxidized Rhizospheres along Living Roots (C3)			
Saturation	. ,			☐ Ma	arl Deposits	(B15)			Presence of	of Reduced Iron (C4)		
Water Mai	rks (B1)			☐ Hy	drogen Sul	fide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)									Stressed Plants (D1)		
Drift Depo	sits (B3)			Ot	her (Explain	n in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)								Shallow Ac	quitard (D3)		
Iron Depo	sits (B5)								Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)	l							FAC-neutra	al Test (D5)		
Field Observa	tions:											
Surface Water	Present?	Yes 🤇	No 💿	De	epth (inches	s):						
Water Table P	resent?	Yes C	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No •	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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