## WETLAND DETERMINATION DATA FORM - Alaska Region

	Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 21-Jun-12			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T32_06			
	ator(s): JGK	side, terrac	ce, hummocks etc.): Hillside					
Local re	elief (concave, convex, none): undulating		Slope:		1 ° Elevation: 857			
	ion : Interior Alaska Mountains	Lat ·	62.7629381091 Long.: -148.328105759 Datum: NAD83					
_	o Unit Name:		02.702930103	71				
	-		0 V	No ○	NWI classification: Upland			
Are Ve	egetation  , Soil  , or Hydrology  r	significantly naturally pr wing sam	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes  No	the Sam	he Sampled Area					
	Hydric Soil Present? Yes No •		within a Wetland? Yes ○ No ●					
Rema	Wetland Hydrology Present? Yes ○ No ●	)	**	a **	Citatia:			
	TATION - Use scientific names of plants. Li	st all spe	Dominant	•	Dominance Test worksheet:  Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:3(A)			
2.					Total Number of Dominant Species Across All Strata: 3 (B)			
3.								
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.					Duarralamaa Tuday waxiirahaati			
	Total Cover:	0			Prevalence Index worksheet:  Total % Cover of: Multiply by:			
Sapl	ing/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1	Algue viridio	35	<b>✓</b>	FAC	FACW Species 1 x 2 = 2			
-	Alnus viridis Vaccinium uliginosum			FAC	FAC Species 77 x 3 = 231			
	Dhadadandran graanlandiaum			FAC	FACU Species 0 x 4 = 0			
	Betula glandulosa			FAC	UPL Species 0 x 5 = 0			
5.	201010 91011000							
6.		•						
7.		0			Prevalence Index = B/A = 2.987			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
		0			✓ Prevalence Index is ≤3.0			
	Total Cover:  50% of Total Cover:				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)			
2.	Petasites frigidus	_1_		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.					be present, unless disturbed or problematic.			
					Plot size (radius, or length x width)			
		•			% Cover of Wetland Bryophytes 0			
		•			(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes30			
10.	Total Cover:	6			Hydrophytic Vegetation			
	i otai Cover		of Total Cover:	1.2	Present? Yes • No			

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SOIL Sampling Point: SW12\_T32\_06

Profile Descripti	ion: (Describe to t	he depth nee	ded to docume	ent the inc		nfirm the abs		ators)	_		
(inches)	Color (moi	st)	%	Color (n	noist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks	
0-4						_			Fibric Organics		
4-7									Hemic Organics		
7-13		2/2	85 	5YR	3/4	15		М	Silty Clay	15% fine grit	
										1370 1110 gill	
¹Type: C=Coi	ncentration. D=	Depletion.					_		annel. M=Matrix		
Hydric Soil I	ndicators:						C Hydric So	oils:´	7		
	r Histel (A1)				ka Color Ch			L	Alaska Gleyed Without Houderlying Layer	ue 5Y or Redder	
	pedon (A2)			☐ Alaska Alpine swales (TA5)					Other (Explain in Remarks)		
	Sulfide (A4)			Alas	ska Redox W	/ith 2.5Y F	lue	_	J Other (Explain in Remark	(3)	
	k Surface (A12)			<sup>3</sup> One i	ndicator of	hvdrophvt	ic vegetatio	n, one prir	mary indicator of wetland h	vdrology,	
☐ Alaska Gle							e position r			,,,,,,,	
Alaska Red				4 Give	details of co	olor chang	e in Remark	S			
	eyed Pores (A15	)									
Restrictive Laye	er (if present):								Usedelia Call Duaganti	? Yes○ No •	
Type: Depth (inch	has).								Hydric Soil Present	? Yes ○ No •	
Remarks:	nes).										
below 13 inche	es depth cobbles	< 4 inches	long presen	t							
HYDROLO											
Wetland Hyd	rology Indicat	tors:							Secondary Indi	cators (two or more are required)	
	ators (any one is	sufficient)							Water Stair	ned Leaves (B9)	
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)					☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)							
Saturation (A3)				Marl Deposits (B15)						of Reduced Iron (C4)	
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					☐ Salt Depos		
Sediment Deposits (B2)				☐ Dry-Season Water Table (C2) ☐ Other (Explain in Remarks)						Stressed Plants (D1)	
l —	☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)					n in Rema	rks)			ic Position (D2)	
								juitard (D3) graphic Relief (D4)			
`	☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6)									of Test (D5)	
Field Observa									IAC licado	ii lest (D3)	
Surface Water		Yes 〇	No •	Dr	epth (inches	s):					
Water Table F			No •			•		Wetla	nd Hydrology Presen	t? Yes ○ No •	
Saturation Pre		_	_	Dt	epth (inches	5):		WCCIG	ilu riyurology r rese	t: 165 C 110 C	
(includes capi		Yes O	No 🕑	Depth (inches):							
Describe Recor	rded Data (strea	ım gauge, ı	monitor well,	, aerial p	hotos, prev	ious inspe	ection) if ava	nilable:			
Remarks:											

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