## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date:26-Jun-12		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T20_06		
	gator(s): SLI, LMF		Landform (hillside, terrace, hummocks etc.): Hillside				
Local	relief (concave, convex, none): flat		Slope: 17.6	% / 10.0	0 ° Elevation: 615		
Subre	gion : Southcentral Alaska	Lat.: 6	 62.729099908	 35	Long.: -148.829679969 Datum: WGS84		
	ap Unit Name:	_			NWI classification: Upland		
Are cli Are \ Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology  MARY OF FINDINGS - Attach site map she	significantly naturally pro	disturbed?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes  No  eded, explain any answers in Remarks.)		
Ren	Hydrophytic Vegetation Present? Yes No	•		the Sampled Area thin a Wetland? Yes ○ No ●			
VEGI	<b>ETATION</b> - Use scientific names of plants.	•		•	Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.		10	<u> </u>	FACU	That are OBL, FACW, or FAC: (A)		
2.					Total Number of Dominant Species Across All Strata: 5 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 40.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cove	er: <u>10</u>			Total % Cover of: Multiply by:		
Saj	oling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species $0 \times 1 = 0$		
1	Betula glandulosa	40	<b>~</b>	FAC	FACW Species 20 x 2 = 40		
2.	Manadal and Patentina		Ä	FAC	FAC Species 50 x 3 = 150		
3.	Cniraga atayonii		$\Box$	FACU	FACU Species 28 x 4 = 112		
4.	Ledum decumbens	7 20	<b>✓</b>	FACW	UPL Species 0 x 5 = 0		
5.	Picea glauca	5		FACU	Column Totals: 98 (A) 302 (B)		
6.							
7.					Prevalence Index = B/A = 3.082		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			☐ Dominance Test is > 50%		
		0			Prevalence Index is ≤3.0		
He	Total Cover: 50% of Total Cover:		20% of Total Cover:		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Cornus canadensis	3	<b>~</b>	FACU	Problematic Hydrophytic Vegetation (Explain)		
	Trientalis europaea	3	<b>V</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
					be present, unless disturbed or problematic.		
					Plot size (radius, or length x width)		
		_			% Cover of Wetland Bryophytes		
					(Where applicable)		
					% Bare Ground 0		
					Total Cover of Bryophytes 95		
		0			Hydronhytic		
10			6		Hydrophytic Vegetation		
10.	Total Cove	er: 6			Present? Yes O No •		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12\_T20\_06

Profile Descripti			eeded to docui	ment the indicator or co			ators)			
Depth (inches)		Matrix			dox Featu		. 2	- Texture	Domarke	
(inches) 0-2	Color (mo	ist)	<u> </u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	<u>Loc</u> 2	Fibric Organics	Remarks	
	10VD	4/2							At the ball and banks and	
2-5	10YR	4/2						Sandy Clay Loam	upper 1in black charcoal horizon.	
5-12	5YR	3/4	100					Loamy Sand		
12-18	7.5YR	2.5/2	100					Coarse Loamy Sand		
-										
-										
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	roblematio	c Hydric So	oils: <sup>3</sup>			
Histosol or	r Histel (A1)			Alaska Color Cl	hange (TA	<b>4</b>		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)	_	Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue		Other (Explain in Remark	s)	
Thick Dark	Surface (A12	)		3.5 1 11					. ,	
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat	hydrophyt te landscar	ic vegetation r	n, one prir	mary indicator of wetland h esent	ydrology,	
Alaska Red	dox (A14)						•			
Alaska Gle	eyed Pores (A1	5)		<sup>4</sup> Give details of co	olor change	e in Remark	(S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes):									
HYDROLO	GY									
Wetland Hydi	rology Indica	itors:						Secondary Indi	cators (two or more are required)	
Primary Indica	tors (any one	is sufficien	t)					Water Stai	ned Leaves (B9)	
Surface W	/ater (A1)			Inundation V	/isible on A	erial Image	ry (B7)	_	Patterns (B10)	
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposits (B15)					f Reduced Iron (C4)	
☐ Water Ma				Hydrogen Su				Salt Depos		
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)	
☐ Drift Depo				Uther (Explain	in in Rema	rks)			ic Position (D2)	
Algal Mat or Crust (B4)  Shallow Aquitard (D3)										
☐ Iron Depo	. ,							_	graphic Relief (D4) al Test (D5)	
	oil Cracks (B6)							FAC-fleutra	ii Test (D3)	
Field Observa Surface Water		Yes C	No ●	Depth (inche	ac).					
			No •	. ,	•		14/otlo	Usadasalaan, Drocon	t? Yes ○ No •	
Water Table P		_	_	Depth (inche	es):		Wetia	nd Hydrology Presen	t? yes∪ no ⊕	
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	es):					
Describe Recor	ded Data (stre	am gauge,	, monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										
no wetland hydrology indicators										

U.S. Army Corps of Engineers Alaska Version 2.0