WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 24-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T17_09
Investigator(s): SLI, LMF	Landform (hillside, terrace, hummocks etc.): Bench
Local relief (concave, convex, none): concave	Slope: 0.0 % / 0.0 ° Elevation: 762
Subregion : Southcentral Alaska Lat.:	62.7902899086 Long.: -148.956729969 Datum: WGS84
Soil Map Unit Name:	NWI classification: PEM1E
	ar? Yes • No · (If no, explain in Remarks.) htty disturbed? Are "Normal Circumstances" present? Yes • No · (If needed, explain any answers in Remarks.) problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydric Soil Present? Yes Vio V	Is the Sampled Area within a Wetland? Yes No O
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Remarks: small emergent toeslope wetland on bench. upslope is well-drained alnus steep slope. wetland runs ~50m E-W, no inlet/outlet. seeps along N bound.

VEGETATION - Use scientific names of plants. List all species in the plot.

			Abso	luto	Dominant	Indicator	Dominance Test worksheet:
Tree	Stratum		% Co		Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.				0			Total Number of Dominant
3.				0			Species Across All Strata: <u>2</u> (B)
4.			-	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
4. 5.			-				
э.			-	0			Prevalence Index worksheet:
		Total Cover					Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum	50% of Total Cover:	0	20% of	Total Cover:	0	OBL Species <u>12</u> x 1 = <u>12</u>
1.				0			FACW Species 30 x 2 = 60
				0			FAC Species $2 \times 3 = 6$
•				0			FACU Species 0 x 4 = 0
				0			UPL Species $0 \times 5 = 0$
				0			
				0		·	Column Totals: <u>44</u> (A) <u>78</u> (B)
							Prevalence Index = B/A = 1.773
				0			
				0			Hydrophytic Vegetation Indicators:
			_	0			✓ Dominance Test is > 50%
10.			_	0			✓ Prevalence Index is \leq 3.0
		Total Cover		0			Morphological Adaptations ¹ (Provide supporting data in
Herb	Stratum	50% of Total Cover:	0	20% of	Total Cover:	0	Remarks or on a separate sheet)
1.	Eriophorum russeolum			30	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex magellanica			10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex aquatilis			2		OBL	be present, unless disturbed or problematic.
4.	Equisetum sylvaticum		-	2		FAC	
5.			-	0			Plot size (radius, or length x width) <u>2m x 5m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground87
				0			Total Cover of Bryophytes 10
				0			
				0	\square		Underschutig
10.		Total Cover		14			Hydrophytic Vegetation
		50% of Total Cover:	-		Total Cover:	8.8	Present? Yes • No
						0.0	1
Rema	arks:						

Depth (inches)	Color (mois	atrix it)	%	Color (moist)	dox Featu %	Type ¹	Loc ²	Texture	Remarks		
	<u> </u>	<u> </u>									
									-		
	· ·							-	-		
									ı -		
								-			
¹ Type: C=Cor	ncentration. D=[Depletion. F	۲M=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³				
_	r Histel (A1)			Alaska Color Ch		4] Alaska Gleyed Without H	lue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s		-	_	Underlying Layer			
	Sulfide (A4)			🗌 Alaska Redox V	Nith 2.5Y F	lue	\checkmark	Other (Explain in Remar	ks)		
	k Surface (A12)			- · · ·							
Alaska Gle	yed (A13)			³ One indicator of and an appropriat				nary indicator of wetland l esent	ıydrology,		
Alaska Red	lox (A14)				•						
Alaska Gle	eyed Pores (A15)	1		⁴ Give details of co	olor change	e in Remari	KS				
Restrictive Laye	er (if present):										
Туре:	•							Hydric Soil Present	t? Yes 🖲 No 🔿		
Depth (inch	nes):							-			
Remarks:											
no soil pit due t	to standing wate	er. assume	hydric soils	due to hydrophytic	vegetatior	ו and wetla	and hydrolog	av			
	-		,	•	-						
HYDROLO	GY										
	rology Indicat	ors:						Secondary Ind	icators (two or more are required)		
	itors (any one is								ined Leaves (B9)		
✓ Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	Drainage	Patterns (B10)		
✓ High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ice (B8)	Oxidized F	Rhizospheres along Living Roots (C3)		
Saturation				Marl Deposits	s (B15)				of Reduced Iron (C4)		
Water Mar	rks (B1)			🗌 Hydrogen Su	lfide Odor	(C1)		Salt Depos	sits (C5)		
	Deposits (B2)			Dry-Season \	Water Tabl	e (C2)		_	Stunted or Stressed Plants (D1)		
Drift Depo				Other (Explai	ín in Rema	rks)			nic Position (D2)		
	or Crust (B4)								quitard (D3)		
Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6)							FAC-neutr	al Test (D5)		
Field Observa		Yes 🖲									
Surface Water				Depth (inche	:s): 4						
Water Table P		Yes 🖲	No \bigcirc	Depth (inche	es): 0		Wetlar	nd Hydrology Preser	nt? Yes $ullet$ No $igodom$		
Saturation Pre (includes capil		Yes 🖲	No O	Depth (inche	es): 0						
Describe Record	ded Data (strea	m gauge, n	nonitor well	l, aerial photos, prev	vious inspe	ction) if av	ailable:				
D											
Remarks:	t the standing	-tor and									
toeslope wellar	nd with standing	Water anu	aigae								