WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Su	usitna Borough	Sampling [Date: 21-Aug-15
Applicant/Owner: Alaska Energy Authority			San	npling Point:	SW15_T303_11
Investigator(s): WAD, SCB	Landform (hil	side, terrace, hi	ummocks etc.)	:	
Local relief (concave, convex, none):	Slope:	%/°	Elevation:		
Subregion : Interior Alaska Mountains Lat.:		Lo	ng.:		Datum: WGS84
Soil Map Unit Name:			NWI cla	assification: P	PEM1E
	tly disturbed? problematic? mpling point	(If needed		nswers in Rem	
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○		the Sample ithin a Wetla		Yes 🖲 No 🤇)
Remarks: VEGETATION - Use scientific names of plants. List all sp					

		Absolute	Dominant	Indicator	Dominance Test worksheet:			
<u>Tre</u>	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
2.					Total Number of Dominant Species Across All Strata:5(B)			
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)			
5.					Prevalence Index worksheet:			
	Total Cover:	0			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =76.1			
1.	Salix pulchra	2	\checkmark	FACW	FACW Species 2.1 x 2 = 4.2			
2.	Betula nana	1	\checkmark	FAC	FAC Species 3 x 3 = 9			
3.	Picea glauca	- 1	\checkmark	FACU	FACU Species <u>1</u> x 4 = <u>4</u>			
	Vaccinium uliginosum		\checkmark	FAC	UPL Species $0 \times 5 = 0$			
5.	Andromeda polifolia(IAM)	0.1		OBL	Column Totals: 82.2 (A) 93.3 (B)			
6.	Salix fuscescens	0.1		FACW				
7.		•			Prevalence Index = B/A = <u>1.135</u>			
					Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
					✓ Prevalence Index is \leq 3.0			
	Total Cover:	5.2			Morphological Adaptations (Provide supporting data in			
Her	Herb Stratum 50% of Total Cover: 2.6 20% of Total Cover: 1.04			1.04	Remarks or on a separate sheet)			
1.	Carex aquatilis	70	\checkmark	OBL	Problematic Hydrophytic Vegetation (Explain)			
2.	Eriophorum angustifolium	5		OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis	1		FAC	be present, unless disturbed or problematic.			
4.	Comarum palustre			OBL	Plot size (radius, or length x width) 10m			
5.		0			% Cover of Wetland Bryophytes			
6.		0			(Where applicable)			
7.		0			% Bare Ground			
8.		0			Total Cover of Bryophytes			
9.		0						
10.		0			Hydrophytic			
Total Cover: 77 50% of Total Cover: 38 5 20% of Total Cover: 15 4 Present? Yes No								
	50% of Total Cover:	8.5 20%	of Total Cover:	15.4	Present? Yes • No ·			

Remarks: very wet sedge with small mossy hummocks with shrubs. several larger palsas with low birch and small spruce (not included in cover data)

SOIL

		depth needed to doct trix	ument the indicator or co Re d							
Depth (inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
		<u> </u>			Type	LOC				
		·								
		·								
		· ·								
¹ Type: C=Cor	ncentration. D=De	epletion. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol o	r Histel (A1)		Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		Alaska Alpine s	wales (TA	5)		Underlying Layer			
	Sulfide (A4)		🗌 Alaska Redox \	Nith 2.5Y H	lue	\checkmark	Other (Explain in Remark	s)		
	surface (A12)									
Alaska Gle	()						nary indicator of wetland h	ydrology,		
Alaska Red			and an appropriat	te landscap	pe position r	must be pre	esent			
	eyed Pores (A15)		⁴ Give details of o	olor chang	e in Remark	s				
Restrictive Laye	er (if present):									
Type:							Hydric Soil Present	? Yes $ullet$ No $igodom$		
Depth (incl	nes):									
Remarks:										
inundated, no p	pit. assume hydrio	soil.								
	·									
	0)/									
HYDROLO										
-	rology Indicato							cators (two or more are required)		
	tors (any one is s	ufficient)					Water Stained Leaves (B9)			
	Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10)									
							hizospheres along Living Roots (C3)			
Saturation	Saturation (A3) Marl Deposits (B15) Presence of Reduced						()			
Water Ma	rks (B1)									
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)						Stunted or Stressed Plants (D1)			
🗌 Drift Depo	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position						ic Position (D2)			
🗌 Algal Mat	lgal Mat or Crust (B4) Shallow Aquitard (D3)						uitard (D3)			
Iron Depo	Iron Deposits (B5) Microtopographic Relief (raphic Relief (D4)			
Surface S	oil Cracks (B6)						✓ FAC-neutra	l Test (D5)		
Field Observa										
Surface Wate	r Present?	Yes 💿 No 🔿	Depth (inche	es): 3						
Water Table F	Present?	Yes 💿 No 🔿	Depth (inche	es): 0		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$		
Saturation Pre (includes capi		Yes 💿 No 🔿	Depth (inche	es): 0						
		gauge, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:										