WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date	e: 06-Aug-12
Applicant/Owner: Alaska Energy Authority			Sampling Point:	SW12_T04_04
Investigator(s): CTS, EKJ	Landform (hills	side, terrace, humm	nocks etc.): Valley bottom	
Local relief (concave, convex, none): flat	Slope: 1.7	%/ 1.0 ° El	evation: 826	
Subregion : Interior Alaska Mountains Lat.:	63.458109907	9 Long.:	-148.658679968	Datum: WGS84
Soil Map Unit Name:			NWI classification: PEM	1E
	ar? Yes ⁽ tly disturbed? problematic?	Are "Normal Ci	no, explain in Remarks.) ircumstances" present? Ye plain any answers in Remarks	es • No () 3.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, trans	ects, important features	s, etc.

Hydrophytic Vegetation Present?	Yes 🖲	Νο 〇	le the Compled Area	
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	Νο 〇		

Remarks: Subarctic lowland wet sedge meadow intermixed w stream channels, scattered tall Salala in larger mappable polygon but <25% cover

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

		4 h	solute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species		
1.		-	0			That are OBL, FACW, or FAC: <u>2</u> (A)		
2.			0			Total Number of Dominant Species Across All Strata: 2 (B)		
3.			0					
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		_	0					
	Total Cove	er:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	ling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0			
	Salix pulchra	_	0.1		FACW	FACW Species <u>0.2</u> x 2 = <u>0.400</u>		
2.		_	0			FAC Species <u>0.2</u> x 3 = <u>0.600</u>		
3.		_	0			FACU Species x 4 =8		
4.		_	0			UPL Species x 5 =		
5.		_	0			Column Totals: <u>58.5</u> (A) <u>65.1</u> (B)		
			0					
			0			Prevalence Index = B/A = <u>1.113</u>		
			0			Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤ 3.0		
Herb Stratum 50% of Total Cover: 0.05 20% of Total Cover: 0.02						Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Glyceria pulchella		8		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Corox equatilia	_	35		OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Enilohium poluetro		2		OBL	be present, unless disturbed or problematic.		
3. 4			2		FACU			
ч. 5.	Comorum nolustro		10		OBL	Plot size (radius, or length x width) <u>10m</u>		
5. 6.	Colomographia considencia		0.1		FAC	% Cover of Wetland Bryophytes 60 (Where applicable)		
0. 7.	Rumex arcticus	_	0.1		FAC			
7. 8.	Frienberum scheuchzeri	_	1		OBL	% Bare Ground		
	Ranunculus hyperboreus	_	0.1		OBL	Total Cover of Bryophytes		
9.	Luzula rufescens	_	0.1		FACW			
10.					TACW	Hydrophytic		
	Total Cove 50% of Total Cover:		<u>58.4</u>	of Total Course	11.00	Vegetation Present? Yes • No O		
	50% OF FOTAL COVER:	29.2	20%0	or rotal cover:	11.68			
Rem	Remarks: Glyceria and Eriophorum collected for positive ID. Fesalt = 0.1%							

Profile Description: (Des		e depth need atrix	ded to docum	nent the indi		irm the ab: x Featu		cators)			
Depth		%	Color (moist) % Type ¹		Loc 2	Texture	Remarks				
0-2 100								Fibric Organics			
2-6 2.	.5Y	3/1	80						Sandy Loam	20% roots	
6-13 2.	.5Y	3/1	40						Sand	coarse rounded gravel and sand	
13-16 2.	.5Y	3/1	50						Sand	rounded gravel and sand	
										_	
									P		
¹ Type: C=Concentra	tion D=D	enletion F	M=Reduce	d Matrix	² Location:	PI =Por	e Lining RC	=Root Cha	nnel M=Matrix		
							-				
Hydric Soil Indicat							c Hydric So				
							Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
Histic Epipedon (a Redox Wi	-			Other (Explain in Remarks)		
Thick Dark Surface	. ,					012.011	lac			,	
Alaska Gleyed (A	. ,			³ One in	dicator of h	ydrophyt	ic vegetatio	on, one prin	nary indicator of wetland	hydrology,	
Alaska Redox (A1				and an a	appropriate	landscap	be position i	must be pre	esent		
Alaska Gleyed Po				4 Give de	etails of col	or change	e in Remark	s			
Restrictive Layer (if pr	resent):										
Туре:									Hydric Soil Presen	t? Yes 🖲 No 🔾	
Depth (inches):											
Remarks:											
H2S odor.											
HYDROLOGY											
Wetland Hydrology	Indicato	ors:							Secondary Inc	icators (two or more are required)	
Primary Indicators (a	ny one is s	sufficient)							Water Sta	ined Leaves (B9)	
Surface Water (A	,			🗌 Inu	ndation Vis	ible on A	erial Image	ry (B7)	Drainage	Patterns (B10)	
High Water Table	e (A2)			Spa	arsely Veget	ated Cor	ncave Surfa	ce (B8)	Oxidized	Rhizospheres along Living Roots (C3)	
Saturation (A3)					rl Deposits					of Reduced Iron (C4)	
Water Marks (B1	-			🖌 Нус	drogen Sulf	de Odor	(C1)		Salt Depo		
Sediment Deposi				Dry	-Season W	ater Tabl	e (C2)		_	r Stressed Plants (D1)	
Drift Deposits (B	3)			Oth	ier (Explain	in Rema	rks)			nic Position (D2)	
Algal Mat or Crus	st (B4)									quitard (D3)	
Iron Deposits (B	5)									graphic Relief (D4)	
Surface Soil Crac	cks (B6)							1	✓ FAC-neutr	al Test (D5)	
Field Observations:			\bigcirc								
Surface Water Preser	nt?	Yes 💿		De	pth (inches): 4					
Water Table Present	?	Yes 🖲	No \bigcirc	De	pth (inches): 4		Wetla	nd Hydrology Prese	nt? Yes $ullet$ No $igodom$	
Saturation Present? (includes capillary fri	nge)	Yes 🖲	No \bigcirc	De	pth (inches): 2					
Describe Recorded Da	ata (strean	n gauge, n	nonitor wel	l, aerial ph	iotos, previ	ous inspe	ection) if ava	ailable:			
Remarks:				.1.7							
surface water is the st	tream run	ning on bo	th sides of	plots and	a little in lo	w spots					