WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 01-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:SW13_T143_04
Investigator(s): WAD, RWM	Landform (hil	lside, terrace, hummocks etc.): creek bank
Local relief (concave, convex, none): hummocky	Slope:	% /° Elevation: 1092
Subregion : Interior Alaska Mountains La	t.: 63.21975266	9 Long.: -148.213391185 Datum: WGS84
Soil Map Unit Name:		NWI classification: PEM1E
	antly disturbed? ly problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) clocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○	Is	the Sampled Area

within a Wetland?

Yes \bullet No \bigcirc

Yes 💿 No 🔿 Wetland Hydrology Present? Remarks: bluejoint meadow at edge of small creek.

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

			Absolute	uto I	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum		% Co		Species?	Status	Number of Dominant Species			
1.				0			That are OBL, FACW, or FAC: <u>3</u> (A)			
2.				0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.				0			Percent of dominant Species			
4.				0			That Are OBL, FACW, or FAC:(A/B)			
5.				0			Prevalence Index worksheet:			
Total Cover:							Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover: 0					Total Cover:	0	OBL Species $31 \times 1 = 31$			
1.	Salix pulchra			5	\checkmark	FACW	FACW Species 5 x 2 = 10			
2.				0			FAC Species <u>63</u> x 3 = <u>189</u>			
3.				0		. <u> </u>	FACU Species 0 x 4 = 0			
				0			UPL Species $0 \times 5 = 0$			
-				0			Column Totals: 99 (A) 230 (B)			
6.				0						
				0			Prevalence Index = B/A = 2.323			
				0			Hydrophytic Vegetation Indicators:			
				0			\checkmark Dominance Test is > 50%			
				0			✓ Prevalence Index is \leq 3.0			
Total Cover:							Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 2.5			2.5	20% of	Total Cover:	1	Remarks or on a separate sheet)			
1.	Calamagrostis canadensis		_	45	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Comarum palustre			25	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Equisetum arvense			15		FAC	be present, unless disturbed or problematic.			
4.	Carex aquatilis			5		OBL	Plot size (radius, or length x width) 10m			
5.	Rumex arcticus		_	2		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes			
6.	Polemonium acutiflorum			1		FAC	(Where applicable)			
7.	Enilohium noluotro			1		OBL	% Bare Ground			
8.				0			Total Cover of Bryophytes			
9.				0						
10.				0			Hydrophytic			
		Total Cover:		4			Vegetation			
		50% of Total Cover:	-		Total Cover:	18.8	Present? Yes \bullet No \bigcirc			
Remarks:										

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features												
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc ²	Texture	R	emarks		
									<u>.</u>			
									8-			
									L			
	······							<u></u>				
								-				
¹ Type: C=Con	centration. D=D	epletion. F	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	-			
Hydric Soil Ir	dicators:			Indicators for Pr	oblemati	c Hvdric S	oils: ³					
Histosol or				Alaska Color Cl		4] Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipe	. ,			Alaska Alpine s		-		Underlying Layer				
	Sulfide (A4)			Alaska Redox V	-	Other (Explain in Remark	arks)					
	Surface (A12)											
Alaska Gley	. ,							mary indicator of wetland h	ydrology,			
Alaska Red				and an appropriat	te landscaj	pe position	must be pre	esent				
Alaska Gley	ved Pores (A15)			⁴ Give details of c	olor chang	e in Remarl	<s< td=""><td></td><td></td><td></td></s<>					
Restrictive Laye	r (if present):											
Туре:	,							Hydric Soil Present	? Yes 🖲	No 🔿		
Depth (inch	es):											
	assume hydric soil due to hydrophytic vegetation and inundation.											
HYDROLO	GY											
Wetland Hydr	ology Indicate	ors:							cators (two or mo	ore are required)		
·	ors (any one is	sufficient)							ned Leaves (B9)			
Surface W	. ,			Inundation V		5	, , ,	_	ge Patterns (B10)			
✓ High Wate				Sparsely Veg		ncave Surfa	ce (B8)	B8) Dxidized Rhizospheres along Living Roots (C3)				
Saturation				Marl Deposits	• •					(4)		
Water Mar	ks (B1) Deposits (B2)			Hydrogen Su				Salt Depos	Stressed Plants (
				Dry-Season \		• •			ic Position (D2)	01)		
	or Crust (B4)				III III Reilla	irks)			juitard (D3)			
Iron Depos	. ,								graphic Relief (D4)		
· ·	il Cracks (B6)							FAC-neutra		/		
Field Observa												
Surface Water		Yes 🖲	No 〇	Depth (inche	es): 2							
Water Table P		Yes 🖲		Depth (inche			Wetla	nd Hydrology Presen	t?Yes 🖲	No 🔿		
Saturation Pres	sent?	Yes 🖲	No O	Depth (inche	,							
(includes capil												
Describe Record	led Data (strear	n gauge, n	nonitor we	ll, aerial photos, pre	vious inspe	ection) if av	ailable:					
Remarks:												

site adjacent to small flowing stream. surface water flowing through area at time of sampling.