WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 29-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T345_06
Investigator(s): SLI, SCB		Landform (hills	side, terrac	e, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope: 3.5	%/ 2.0	Elevation:
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: R4SBC
Are climatic/hydrologic conditions on the site typical for this ti	me of ve	ar? Yes (• No ()	(If no, explain in Remarks.)
	•	ntly disturbed?		ormal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology	-	•		ded, explain any answers in Remarks.)
	-			
SUMMARY OF FINDINGS - Attach site map sho	-	impling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No			41	ulad Ana
Hydric Soil Present? Yes No C)			pled Area etland? Yes \odot No \bigcirc
Wetland Hydrology Present? Yes 💿 No 🤇)	WI	thin a W	
Remarks: intermittent channel (or channels?) among willow and below ground surface. sandy substrate at all	visible lo	ocations.		pth 18 in, water depth 10 in. spatially intermittent above
VEGETATION - Use scientific names of plants. Li	ist all s	becies in the p	blot.	·
	Absolut		Indicator	Dominance Test worksheet: Number of Dominant Species
Tree Stratum 1.	<u>% Cove</u>	er Species?	Status	That are OBL, FACW, or FAC:(A)
2	-			Total Number of Dominant
3		- 🗋		Species Across All Strata: <u>2</u> (B)
		-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				Description of the description o
Total Cover	. 0	_		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species $5 \times 1 = 5$
1	0			FACW Species $0 \times 2 = 0$
1	•	-		FAC Species $0 \times 3 = 0$
3.				FACU Species 0 x 4 = 0
4.				UPL Species x 5 =
5.	-			Column Totals: <u>5</u> (A) <u>5</u> (B)
6.				
7	0			Prevalence Index = B/A = <u>1.000</u>
8	0			Hydrophytic Vegetation Indicators:
9				✓ Dominance Test is > 50%
10.	0	_		✓ Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		0% of Total Cover:	0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Carex aquatilis	3	_	OBL	Problematic Hydrophytic Vegetation (Explain)
2. Comarum palustre			OBL	¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4.	-	- 📙		Plot size (radius, or length x width) <u>1x5m</u>
5		- □		% Cover of Wetland Bryophytes
6		- □		(Where applicable)
7		- □		% Bare Ground _95
8 9		- □		Total Cover of Bryophytes
9 10		-		Hudrophytic
Total Cover		_		Hydrophytic Vegetation
50% of Total Cover:			1	Present? Yes \bullet No \bigcirc
Remarks: intermittent channel, vegetation limited to sca				

Profile Descripti Depth		e depth nee atrix	ded to docun	nent the indicator or con Red	nfirm the ab dox Featu		cators)				
(inches)	Color (mois	:t)	%	Color (moist)	%	Type ¹	2	Texture	Remarks		
	· ·										
¹ Type: C=Cor	centration. D=[Depletion. F	M=Reduce	ed Matrix ² Location	1: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil II	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	hange (TA	4) 4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip				Alaska Alpine s	wales (TA	5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y H	lue	\checkmark	Other (Explain in Remark	s)		
	Surface (A12)										
Alaska Gle	. ,			³ One indicator of and an appropriat	hydrophyt	tic vegetatio	on, one prin	nary indicator of wetland h	ydrology,		
Alaska Rec					ë idhustar	e posicion i	nust be pre	esent			
🗌 Alaska Gle	yed Pores (A15)			⁴ Give details of co	olor chang	e in Remark	s				
Restrictive Laye	er (if present):										
Type:	a (ii presency.							Hydric Soil Present	? Yes 🖲 No 🔿		
Depth (inch	1ec):							Nyune son riesene			
							I				
Remarks:	- duie poil popu	·									
active channel,	hydric soil assu	nea									
HYDROLO	GY										
Wetland Hydi	-	ors:						Secondary Indi	cators (two or more are required)		
	tors (any one is								ned Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ry (B7)		atterns (B10)		
🗌 High Wate	er Table (A2)			Sparsely Veg		-			hizospheres along Living Roots (C3)		
Saturation				Marl Deposits					f Reduced Iron (C4)		
Water Ma	. ,			Hydrogen Su	. ,	(C1)		Salt Depos	its (C5)		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
Drift Depo				Other (Explai				✓ Geomorphi	ic Position (D2)		
	or Crust (B4)			- -				Shallow Aq	uitard (D3)		
Iron Depo								_	Iraphic Relief (D4)		
Surface So	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	tions:										
Surface Water	Present?	Yes 🖲	No \bigcirc	Depth (inche	es): 10						
Water Table P	resent?	Yes \bigcirc	No 🖲	Depth (inche			Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre											
(includes capil		Yes \bigcirc	No 🔍	Depth (inche	:s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
		-				-					
Remarks:											
active channel											