WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T331_05			
nvestigator(s): ERT, TXC		Landform (hill:	side, terrac	e, hummocks etc.): Basin			
Local relief (concave, convex, none): flat		Slope: 0.0	%/ 0.0) ° Elevation:			
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
Soil Map Unit Name:	2000			NWI classification: PUSC			
Are climatic/hydrologic conditions on the site typical for this t	ime of voo	Voc	0 No 🖲				
	-	tly disturbed?		(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○			
	-	problematic?		eded, explain any answers in Remarks.)			
			·				
SUMMARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes 🔍 No 🤇	\supset						
Hydric Soil Present? Yes 🔍 No 🤇)	Is the Sampled Area					
Wetland Hydrology Present? Yes Ves No	\supset	wi	within a Wetland? Yes $ullet$ No $igodoldsymbol{ imes}$				
Remarks: Drained pond, no longer PUBH.		ľ					
,,							
/EGETATION - Use scientific names of plants. L	ist all sp.	ecies in the	plot.				
	Absolute	e Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum	% Cove		Status	Number of Dominant Species			
1.				That are OBL, FACW, or FAC: (A)			
2.				Total Number of Dominant Species Across All Strata: 1 (B)			
3.				Percent of dominant Species			
4.				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
5.				Prevalence Index worksheet:			
Total Cove	r:	_		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1	0			FACW Species 21 x 2 = 42			
2.	•			FAC Species 3 x 3 = 9			
3.				FACU Species <u>0</u> x 4 = <u>0</u>			
4.	-			UPL Species x 5 =			
5.	-			Column Totals: <u>24</u> (A) <u>51</u> (B)			
6.	-						
7	0			Prevalence Index = B/A =			
8	0			Hydrophytic Vegetation Indicators:			
9	0			✓ Dominance Test is > 50%			
10	0			✓ Prevalence Index is \leq 3.0			
Total Cover _Herb Stratum_ 50% of Total Cover:		_ % of Total Cover	:	 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 			
1. Carex saxatilis	18		FACW	Problematic Hydrophytic Vegetation (Explain)			
2. Calamagrostis canadensis	3		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3. Equisetum variegatum	2		FACW	be present, unless disturbed or problematic.			
4. Ranunculus gmelinii	1		FACW	Plot size (radius, or length x width) <u>5m</u>			
5				% Cover of Wetland Bryophytes			
6				(Where applicable)			
7				% Bare Ground			
8				Total Cover of Bryophytes			
9							
	0			Hydrophytic			
10							
10Total Cover: 50% of Total Cover:	-	_	4.8	Vegetation Present? Yes • No			

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
(inches) Color (moist)		st)	%	Color (moist)	%	% Type ¹	Loc ²	Texture	Remarks	
0-15	2.5Y	4/2	97	10YR 5/4		C	PL	Very Fine Sandy Loam	C, few faint concentrations	
	. <u> </u>		,	,				-		
	centration D-	Depletion		ed Matrix ² Locat	tion: DI - Por	e Lining P	C-Root Cha	nnel M-Matrix	-	
Type. C=Cond			NH-Reduce			-				
Hydric Soil In	dicators:			Indicators for		4	ioils:	1		
Histosol or	Histel (A1)				Change (TA			Alaska Gleyed Without I Underlying Layer	Hue 5Y or Redder	
Histic Epipe					e swales (TA	-		Other (Explain in Remai		
Hydrogen S				Alaska Redo	x With 2.5Y H	Hue	V	Uther (Explain in Remai	KS)	
	Surface (A12)			³ One indicator	of hydrophyl	ric vegetatio	on, one prin	nary indicator of wetland	hydrology.	
Alaska Gley				and an approp	riate landscap	pe position	must be pre	esent		
Alaska Redo	. ,			⁴ Give details o	f color chang	e in Remar	ks			
Alaska Gley	ed Pores (A15)			· · · · · · · · · · · · · · · · · · ·					
Restrictive Layer	r (if present):									
Type:								Hydric Soil Presen	t? Yes 🖲 No 🔾	
Depth (inche	es):									
Remarks:										
sandy soils with	low organic ca	arbon conte	nt, drained	basin. assume hy	/dric					
	2									
HYDROLOG										
Wetland Hydro	•••								licators (two or more are required)	
Primary Indicate		sumclent)		Turun dation	.) <i>(</i> ;=; =]= == A	anial Traca a			ained Leaves (B9)	
	r Table (A2)			 Inundation Sparsely V 					Patterns (B10) Rhizospheres along Living Roots (C3)	
				Marl Depo	-	icave Surra	се (во)		of Reduced Iron (C4)	
Water Marl	. ,			Hydrogen	()	(C1)		Salt Depo	. ,	
	Deposits (B2)				n Water Tabl				r Stressed Plants (D1)	
					plain in Rema	• •		_	hic Position (D2)	
· _ ·	or Crust (B4)					115)			quitard (D3)	
	. ,							_	graphic Relief (D4)	
· - ·	il Cracks (B6)							FAC-neutr	• • • • •	
Field Observat	. ,									
Surface Water		$_{\sf Yes}$ \bigcirc	No 🖲	Depth (ind	ches):					
Water Table Pr		Yes O	-	Depth (inc			Wetla	nd Hydrology Prese	nt? Yes $ullet$ No $igcap$	
Saturation Pres (includes capill		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inc						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										