WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Mat	anuska-Susitna Borough	Sampling Date: 27-Jun-12			
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point:			
Investigator(s): JGK	Landform (hillside,	Landform (hillside, terrace, hummocks etc.): Hillside				
Local relief (concave, convex, none): undulating	Slope:57.7 % /	30.0 ° Elevation: 100)1			
Subregion : Interior Alaska Mountains Lat.:	62.7666099087	Long.: -147.717529	975 Datum: WGS84			
Soil Map Unit Name:		NWI classi	ification: Upland			
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)						
			present			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	No 🔍	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{eta}$
Remarks:				

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

		bsolute	Dominant	Indicator	Dominance Test worksheet:			
Tre		% Cover	Species?	Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: (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: <u>100.0%</u> (A/B)			
5.		0			Developer Indevenielen			
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum50% of Total Cover:0	20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1.	Alnus viridis ssp. crispa	50	\checkmark	FAC	FACW Species 0 x 2 = 0			
2.	Rosa acicularis	10		FACU	FAC Species x 3 =285			
3.	Ribes hudsonianum	5		FAC	FACU Species <u>18</u> x 4 = <u>72</u>			
4.	Linnaea borealis	1		FACU	UPL Species 0 x 5 = 0			
5.		0			Column Totals: <u>113</u> (A) <u>357</u> (B)			
6.		0						
		0			Prevalence Index = B/A = <u>3.159</u>			
		0			Hydrophytic Vegetation Indicators:			
		0			✓ Dominance Test is > 50%			
		0			Prevalence Index is ≤3.0			
	Total Cover:	66			\Box Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 33			of Total Cover:	13.2	Remarks or on a separate sheet)			
1.	Calamagrostis canadensis	40	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Chamerion angustifolium	5		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Cornus canadensis	2		FACU	be present, unless disturbed or problematic.			
4.		0			Plot size (radius, or length x width) 10m			
		0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes <u>0</u>			
6.		0			(Where applicable)			
		0			% Bare Ground _5			
		0			Total Cover of Bryophytes 2			
		0						
		0			Hydrophytic			
	Total Cover:		Vegetation					
	50% of Total Cover: <u>23</u> .	.5 20%	of Total Cover:	9.4	Present? Yes No			
Rem	Remarks: tr spibea vacvit ledgro (more abundant in adjacent open low birch) picgla							

Profile Description	-	e depth need atrix	led to doc	ument the indicator or co	onfirm the ab		ators)		
Depth (inches)			~			Type ¹	Loc 2	Texture	Remarks
0-2	Color (mois	t)	<u>%</u> 70	Color (moist)	%	Type -	_Loc	Fibric Organics	30% roots
2-7			60					Hemic Organics	40% rounded boulders and cobbles
7-12			40					Sapric Organics	60% boulders and cobbles
			UT						
	. <u> </u>							<u></u>	
								-	
¹ Type: C=Con	icentration. D=D	Depletion. F	RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4) 4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epip	. ,			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y I	Hue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12)								
Alaska Gle	yed (A13)			One indicator of and an appropriat				mary indicator of wetland l esent	hydrology,
Alaska Red	lox (A14)					·	•		
Alaska Gle	yed Pores (A15)			⁴ Give details of c	olor chang	e in Remark	S		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	:? Yes 🔿 No 🖲
Depth (inch	ies):								
Remarks: No indicators of	Remarks: No indicators of soil saturation, which is required to meet A2.								
HYDROLO	GY								
	ology Indicate								icators (two or more are required)
·	tors (any one is	sufficient)							ined Leaves (B9)
Surface W	. ,			Inundation V		-			Patterns (B10)
	er Table (A2)			Sparsely Veg		ncave Surfac	e (B8)		Chizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposit	. ,	(61)			of Reduced Iron (C4)
Water Mar				Hydrogen Su				Salt Depos	r Stressed Plants (D1)
	Deposits (B2)			Dry-Season					()
Drift Depo	or Crust (B4)			Other (Expla	in in Rema	rks)			ic Position (D2) quitard (D3)
Iron Depo								_	graphic Relief (D4)
· _ ·	oil Cracks (B6)								al Test (D5)
Field Observa	. ,								
Surface Water		$_{Yes}$ \bigcirc	No 🖲	Depth (inche	es):				
Water Table P		Yes O	-	1 (,		Wetla	nd Hydrology Preser	nt? Yes 🔿 No 🖲
Saturation Pre (includes capil		$_{\rm Yes} \bigcirc$	No 🖲		,				

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks: