WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Samplin	g Date: 05-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T113_06
Investigator(s): WAD, RWM	Landform (hillsi	de, terrace, hummocks etc.): depress	sion
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation: <u>1060</u>	
Subregion : Interior Alaska Mountains Lat.:	62.763049006	Long.: -147.629882097	Datum: WGS84
Soil Map Unit Name:		NWI classification:	PUBH
	ar? Yes atly disturbed? problematic?	No (If no, explain in Remark Are "Normal Circumstances" present (If needed, explain any answers in Re	Yes 🔍 No 🔿
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transects, important fea	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc
---	----------------------------	-------------------------	---------------------------------------	---------------------------

Remarks: Small pond near divide wetlands upstream feeding it with outlet to the northwest.

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

			۵he	olute	Dominant	Indicator	Dominance Test worksheet:	
Tree	e Stratum			Cover	Species?	Status	Number of Dominant Species	<i></i>
1.				0			That are OBL, FACW, or FAC: 2	(A)
2.				0			Total Number of Dominant Species Across All Strata: 2	(B)
3.				0			Percent of dominant Species	(2)
4.				0			That Are OBL, FACW, or FAC: 100.0%	(A/B)
5.				0				
		Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $12 \times 1 = 12$	
1				0			FACW Species $0 \times 2 = 0$	
2.				0			FAC Species 3 x 3 = 9	
3.				0			FACU Species $0 \times 4 = 0$	
4.				0			UPL Species $0 \times 5 = 0$	
5.				0				-
				0			Column Totals: <u>15</u> (A) <u>21</u>	(B)
				0			Prevalence Index = B/A = <u>1.400</u>	
				0			Hydrophytic Vegetation Indicators:	
				0			Dominance Test is > 50%	
				0			✓ Prevalence Index is ≤ 3.0	
		Total Cover		0			Morphological Adaptations ¹ (Provide supporting d	ata in
Her	b Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	Remarks or on a separate sheet)	
1.	Calamagrostis canadensis			3	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Equisetum fluviatile			2		OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Potamogeton epihydrus		_	10	\checkmark	OBL	be present, unless disturbed or problematic.	
4.			_	0			Plot size (radius, or length x width)10m	
5.			-	0			% Cover of Wetland Bryophytes	-
6.			-	0			(Where applicable)	_
				0			% Bare Ground	_
8.			-	0			Total Cover of Bryophytes	_
9.			-	0				
10.				0			Hydrophytic	
		Total Cover	-	15			Vegetation Present? Yes • No ·	
		50% of Total Cover:	7.5	20%	of Total Cover:	3	Present? Yes 🔍 No 🔾	
Rem	arks:							

SOIL

Profile Description: (Describe to	o the depth needed to do Matrix		nfirm the absence of indi dox Features	icators)			
Depth (inches) Color (m	oist) %	Color (moist)	% Type ¹	_Loc_2	Texture	Remarks	
	·		,				
. <u> </u>							
· · · · · · · · · · · · · · · · · · ·							
¹ Type: C=Concentration. D	=Depletion. RM=Red				innel. M=Matrix		
Hydric Soil Indicators:		Indicators for Pr	oblematic Hydric S	ioils: ³			
Histosol or Histel (A1)		Alaska Color Cl	nange (TA4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A2)		Alaska Alpine s	wales (TA5)	_	Underlying Layer		
Hydrogen Sulfide (A4)		🗌 Alaska Redox V	Nith 2.5Y Hue	\checkmark	Other (Explain in Remark	s)	
Thick Dark Surface (A12	2)	3 One indicator of	- drambutic vogatati		nary indicator of wetland h		
Alaska Gleyed (A13)			te landscape position			ydrology,	
Alaska Redox (A14)		4 Give details of a	olor change in Remar	dvc			
Alaska Gleyed Pores (A	15)			KS			
Restrictive Layer (if present)	:						
Туре:					Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inches):							
assume hydric soil due to hy	drophytic vegetation	and inundation.					
HYDROLOGY							
Wetland Hydrology Indic					Secondary India	cators (two or more are required)	
Primary Indicators (any one	is sufficient)				_	ned Leaves (B9)	
Surface Water (A1)			isible on Aerial Image				
High Water Table (A2)			etated Concave Surfa	ice (B8)		hizospheres along Living Roots (C3)	
Saturation (A3)		Marl Deposite			Salt Depos	of Reduced Iron (C4)	
Water Marks (B1)	N N	Hydrogen Su					
Sediment Deposits (B2))		Water Table (C2) in in Remarks)		Stunted or Geomorphi	Stressed Plants (D1)	
Algal Mat or Crust (B4)			II III Kellidiksj			uitard (D3)	
Iron Deposits (B5)						graphic Relief (D4)	
Surface Soil Cracks (B6)				FAC-neutra		
Field Observations:	,						
Surface Water Present?	Yes 💿 No 🤇	Depth (inche	es): 24				
Water Table Present?	Yes 🔿 No 🤆	Depth (inche	es):	Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Present? (includes capillary fringe)	Yes 🔿 No 🖲	Depth (inche	es):				
Describe Recorded Data (str	eam gauge, monitor	well, aerial photos, prev	vious inspection) if av	/ailable:			

Remarks:

shallow pond with rock and mud substrate . Surface water depth an estimate.