WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	rough	Sampling D	ate: 08-A	ug-13
Applicant/Owner: Alaska Energy Authority				Sam	pling Point:	SW13_T1	69_02
Investigator(s): BAB		Landform (hills	side, terrac	e, hummocks etc.):	lacustrine f	ringe	
Local relief (concave, convex, none): concave		Slope:	% / 8.2	° Elevation: 8	322		
Subregion : Interior Alaska Mountains	Lat.:	63.417941657	6	Long.: -148.6455	555973	Datum: N	IAD83
Soil Map Unit Name:				NWI cla	ssification: PI	EM1F	
	gnificant aturally p	ly disturbed? problematic?	Are "Ne (If nee	ormal Circumstanc ded, explain any ar	iswers in Rema	ırks.)	, O
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Remarks: fringe around entire pubh, floating mat VEGETATION - Use scientific names of plants. List		wit	thin a W	pled Area etland?	Yes 💿 No C)	
	Absolute % Cover	Dominant	Indicator Status	Dominance Test v Number of Domina	nt Species		
1.	0			That are OBL, FAC	W, or FAC:	3	(A)
2.	0			Total Number of Do Species Across All		3	(B)
3.	0			Percent of dominar			(-)
4.	0			That Are OBL, FAC		100.0%	(A/B)
5.	0			Prevalence Index	worksheet:		
Total Cover:			Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover: 0) 20%	6 of Total Cover:	0	OBL Species	s <u>23.2</u> x	1 =	2
				FACW Speci		2= 0	

Total Cover:						Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20% of To	tal Cover:	0	OBL Species x 1 =			
1.	Vaccinium uliginosum			1		FAC	FACW Species x 2 =			
2.	Andromeda polifolia (IAM)			1		OBL	FAC Species x 3 =6			
3.	Vaccinium oxycoccos			0.1		OBL	FACU Species <u>0</u> x 4 = <u>0</u>			
4.				0			UPL Species x 5 =			
				0			Column Totals: <u>25.2</u> (A) <u>29.20</u> (B)			
				0						
				0			Prevalence Index = B/A = <u>1.159</u>			
				0			Hydrophytic Vegetation Indicators:			
				0			✓ Dominance Test is > 50%			
4.0				0			✓ Prevalence Index is \leq 3.0			
		Total Cover		2.1			Morphological Adaptations ¹ (Provide supporting data in			
Her	b Stratum	50% of Total Cover:	1.05	_ 20% of To		0.42	Remarks or on a separate sheet)			
1.	Carex aquatilis			7	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Trichophorum caespitosum			6	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Eriophorum angustifolium			5	\checkmark	OBL	be present, unless disturbed or problematic.			
4.	Menyanthes trifoliata			2		OBL	Plot size (radius, or length x width) 10m			
5.	Eriophorum scheuchzeri			2		OBL	% Cover of Wetland Bryophytes 15			
6.	Equisetum arvense			1		FAC	(Where applicable)			
7.	Carex limosa			0.1		OBL	% Bare Ground			
8.				0			Total Cover of Bryophytes			
9.				0						
10.				0			Hydrophytic			
		Total Cover		23.1			Vegetation			
		50% of Total Cover: <u>1</u>	1.55	20% of To	tal Cover:	4.62	Present? Yes No			
Remarks: wet bryophytes scosco, sphag. total shrub cover <5%, thus no shrub species dominant.										

	(Describe to the dep Matrix		ent the indicator or con Red	nfirm the absending the second seco							
Depth — (inches)	Color (moist)	%	Color (moist)	%	Type ¹ Lo	2	Texture	Remarks			
						-					
					,						
								-			
¹ Type: C=Concer	ntration. D=Deple	tion. RM=Reduced	Matrix ² Location	n: PL=Pore Li	ining. RC=Root	Channel. M	=Matrix				
Hydric Soil Indi	cators:		Indicators for Pr	oblematic H	vdric Soils: ³						
Histosol or His]	Alaska Color Ch	4	,		a Gleyed Without H	ue 5Y or Redder			
Histic Epipedo	. ,	ĺ	Alaska Alpine s				lying Layer				
Hydrogen Sul		ĺ	Alaska Redox V		5	✓ Other	(Explain in Remarl	(S)			
Thick Dark Su	()										
Alaska Gleyed	. ,						licator of wetland h	nydrology,			
Alaska Redox			and an appropriat	e landscape p	position must b	e present					
Alaska Gleyed	. ,		⁴ Give details of co	olor change ir	n Remarks						
Restrictive Layer (i	f present):										
Type:						Hydr	ric Soil Present	? Yes 🖲 No 🔾			
Depth (inches)											
Remarks:											
assume hydric soil	due to hydrophyt	c vegetation and	inundation.								
HYDROLOGY	(
Wetland Hydrold	ogy Indicators:						Secondary Indi	cators (two or more are required)			
Primary Indicators	s (any one is suffic	ient)					🗌 Water Stai	ned Leaves (B9)			
Surface Wate	er (A1)		✓ Inundation V	isible on Aeria	al Imagery (B7))	🗌 Drainage I	Patterns (B10)			
🗌 High Water T	able (A2)		Sparsely Veg	etated Conca	ve Surface (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A	3)		Marl Deposite	s (B15)			Presence of	of Reduced Iron (C4)			
Water Marks	(B1)		🗌 Hydrogen Su	lfide Odor (Ci	1)		Salt Deposits (C5)				
Sediment De	posits (B2)		✓ Dry-Season \	Water Table (C2)		Stunted or	Stressed Plants (D1)			
Drift Deposite	s (B3)		🗌 Other (Explai	n in Remarks)		Geomorph	ic Position (D2)			
Algal Mat or	Crust (B4)						Shallow Ac	quitard (D3)			
Iron Deposits	s (B5)						Microtopog	graphic Relief (D4)			
Surface Soil (Cracks (B6)						FAC-neutra	al Test (D5)			
Field Observatio		<u> </u>									
Surface Water Pr	esent? Yes	● No ○	Depth (inche	s): 1							
Water Table Pres	ent? Yes	🔿 No 🖲	Depth (inche	s):	We	tland Hy	drology Presen	it? Yes 🖲 No 🔾			
Saturation Preser (includes capillar)	YAC	○ _{No}	Depth (inche								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											