WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date:	04-Aug-13	
Applicant/Owner: Alaska Energy Authority		Sampli	ing Point:SV	N13_T150_04	
Investigator(s): SLI, EAC	Landform (hills	Landform (hillside, terrace, hummocks etc.): Hillside			
Local relief (concave, convex, none): hummocky	Slope:	% / 3.9 ° Elevation: 76	8		
Subregion : Interior Alaska Mountains Lat.:	63.3323076961	Long.: -148.28812	8139 D	atum: NAD83	
Soil Map Unit Name:		NWI class	ification: PSS1B		
	ar? Yes (tly disturbed? problematic?	No O (If no, explain ir Are "Normal Circumstances (If needed, explain any answ	" present? Yes	• No ()	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point I	ocations, transects, impo	rtant features,	etc.	

Hydrophytic Vegetation Present?	Yes 🖲	Νο 〇		
Hydric Soil Present?	Yes 🖲	No \bigcirc	Is the Sampled Area	Yes \bullet No \bigcirc
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	fes 🖲 NO 🖯
emarks:				

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

		۸he	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum			Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca		15	\checkmark	FACU	That are OBL, FACW, or FAC: <u>3</u> (A)
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC:
5.			0			Prevalence Index worksheet:
	Total Cove	er:	15			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5	20%	of Total Cover:	3	OBL Species x 1 =
1.	Salix reticulata		30	\checkmark	FAC	FACW Species 20.1 x 2 = 40.20
2.	Vaccinium uliginosum		2		FAC	FAC Species <u>159.1</u> x 3 = <u>477.3</u>
3.	Dasiphora fruticosa		0.1		FAC	FACU Species <u>20</u> x 4 = <u>80</u>
4.	Salix pulchra		15		FACW	UPL Species x 5 =
5.	Salix barclayi		65	\checkmark	FAC	Column Totals: <u>202.2</u> (A) <u>600.5</u> (B)
6.	Picea glauca		5		FACU	
7.	Empetrum nigrum		2		FAC	Prevalence Index = B/A = <u>2.970</u>
8.			0			Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is \leq 3.0
	Total Cove	er:	119			\Box Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	59.55	_ 20%	of Total Cover:	23.82	Remarks or on a separate sheet)
1.	Rubus chamaemorus	_	5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Comarum palustre	_	3		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense		60	\checkmark	FAC	be present, unless disturbed or problematic.
4.	Parnassia palustris		0.1		FACW	Plot size (radius, or length x width) <u>10m</u>
5.		_	0			% Cover of Wetland Bryophytes
6.			0			(Where applicable)
7.			0			% Bare Ground _7
8.			0			Total Cover of Bryophytes90
9.			0			
			0			Hydrophytic
	Total Cove	er:	68.1			Vegetation
	50% of Total Cover:	34.05	20%	of Total Cover:	13.62	Present? Yes No
Rem	arks: trace anemone, polemonium					

	on: (Describe to	o the depth n Matrix	eeded to docur	nent the indicator or cor Rec	nfirm the ab		ators)		
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-4	5YR	3/2	100			.,,,,		Fibric Organics	
4-10	5YR	2.5/1	100					Hemic Organics	
								·	
					·				
¹ Type: C=Con	centration. D	=Depletior	. RM=Reduce	ed Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	ils: ³		
Histosol or	Histel (A1)			Alaska Color Ch	ange (TA	4) 4)] Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epip	. ,			Alaska Alpine s	wales (TA	5)		Underlying Layer	
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	s)
	Surface (A12	2)							
Alaska Gle		-/						nary indicator of wetland h	ydrology,
Alaska Red				and an appropriat	e landscap	be position m	nust be pre	esent	
	yed Pores (Al	15)		⁴ Give details of co	olor chang	e in Remark	5		
Restrictive Laye	r (if present)	:							
Type: activ								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch									
Remarks:	-								
l									
HYDROLO	GY								
Wetland Hydr	ology Indic	ators:						Secondary Indic	cators (two or more are required)
Primary Indicat	ors (any one	is sufficier	it)					Water Stair	ned Leaves (B9)
Surface W	ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	🗌 Drainage P	atterns (B10)
🖌 High Wate	r Table (A2)			Sparsely Veg		-		Oxidized RI	hizospheres along Living Roots (C3)
Saturation	(A3)			Marl Deposite			()	Presence o	f Reduced Iron (C4)
🗌 Water Mai				Hydrogen Su	. ,	(C1)		Salt Deposi	its (C5)
	Deposits (B2))		Dry-Season V				_	Stressed Plants (D1)
🗌 Drift Depo	sits (B3)			Other (Explai	n in Rema	rks)			c Position (D2)
Algal Mat	or Crust (B4)							🗹 Shallow Aq	uitard (D3)
Iron Depo	sits (B5)							_	raphic Relief (D4)
Surface So	oil Cracks (B6)						FAC-neutra	l Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes 🤇	No 💿	Depth (inche	s):				
Water Table P	resent?	Yes 🤆	No	Depth (inche	s). e		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$
Saturation Pre	sent?		No	Depth (inche					
(includes capil					·				
Describe Record	ied Data (str	eam gauge	, monitor we	ll, aerial photos, prev	vious inspe	ection) if ava	liable:		
Remarks:									