WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 07-Jul-1	13
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW13_T102	_01
Investigator(s): SLI, SCB	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): none	Slope:	% / 2.1 ° Elevation: 893	
Subregion : Interior Alaska Mountains Lat.:	62.709316133	9 Long.: -147.565785765 Datum: NAD	D83
Soil Map Unit Name:		NWI classification: PEM1/SS1B	
	ar? Yes (tly disturbed? problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.))
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, important features, etc.	

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ● Yes ●	No () No ()	Is the Sampled Area
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland? Yes $ullet$ No $igodot$
Remarks:			

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

			olute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum		% Cover		Species?	Status	Number of Dominant Species	
1.			0			That are OBL, FACW, or FAC:3_ (A)	
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)	
3.			0			()	
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)	
5.			0				
5.	Total Cover					Prevalence Index worksheet:	
		_	0	(=		Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Cover:	0	_ 20%	of Total Cover:	0	OBL Species <u>6.1</u> x 1 = <u>6.1</u>	
1.	Salix pulchra		25	\checkmark	FACW	FACW Species <u>25.1</u> x 2 = <u>50.20</u>	
2.	Betula glandulosa		5		FAC	FAC Species <u>51.3</u> x 3 = <u>153.9</u>	
3.	Vaccinium uliginosum		5		FAC	FACU Species <u>1.2</u> x 4 = <u>4.800</u>	
4.	Picea glauca		1		FACU	UPL Species x 5 =	
5.	Alnus viridis		0.1		FAC	Column Totals: <u>83.7</u> (A) <u>215</u> (B)	
6.	Dasiphora fruticosa		0.1		FAC		
7.	Spiraea stevenii		0.1		FACU	Prevalence Index = B/A = <u>2.569</u>	
8.			0			Hydrophytic Vegetation Indicators:	
			0			✓ Dominance Test is > 50%	
			0			✓ Prevalence Index is \leq 3.0	
	Total Cover		36.3			Morphological Adaptations ¹ (Provide supporting data in	
Her	b Stratum 50% of Total Cover:			of Total Cover:	7.26	Remarks or on a separate sheet)	
1.	Calamagrostis canadensis		30	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Equisetum arvense		10		FAC	¹ Indicators of hydric soil and wetland hydrology must	
3.	Carex aquatilis		5		OBL	be present, unless disturbed or problematic.	
4.	Comarum palustre		1		OBL	Plot size (radius, or length x width) 10m	
5.	Cornus suecica		1		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes	
6.	Equisetum sylvaticum		0.1		FAC	(Where applicable)	
7.	Parnassia kotzebuei		0.1		FACW	% Bare Ground 0	
8.	Rubus arcticus (IAM)		0.1		FACU	Total Cover of Bryophytes 50	
9.	Epilobium palustre		0.1		OBL		
10.			0			Hydrophytic	
	Total Cover	Vegetation					
	50% of Total Cover:		<u>47.4</u> 20%	of Total Cover:	9.48	Present? Yes \bullet No \bigcirc	
Remarks: trace of viola sp							

SOI	L

	on: (Describe to t	he depth ne fatrix	eded to docu	ment the ind		ifirm the ab		cators)				
(inches)	(inches) Color (moist) %		Color (moist) <u>%</u> Type ¹			Loc 2	Texture	Remarks				
0-7									Hemic Organics			
7-14	2.5Y	3/2	85	10YR	4/4	15	С	PL	Clay	fine roots and small pieces of charcoal thro		
									-			
¹ Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix	² Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicate	ors for Pre	oblemati	c Hydric S	oils: ³				
	Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,				ka Alpine sv				Underlying Layer			
	Sulfide (A4)			Alask	ka Redox W	, ith 2.5Y I	lue		Other (Explain in Remarks)			
	Surface (A12)											
Alaska Gle	. ,							on, one prir must be pr	mary indicator of wetland h	ydrology,		
🖌 Alaska Red				anu an	арргорпас	e ianuscaj	be position	must be pr	esent			
🗌 Alaska Gle	yed Pores (A15	5)		⁴ Give d	etails of co	olor chang	e in Remar	ks				
Restrictive Laye	er (if present):											
Type: clay	,								Hydric Soil Present	? Yes 🖲 No 🔿		
Depth (inch									nyane bon resene			
	, ,											
Remarks: clay forms 7cm	strong ribbon											
ciay forms / cm	Strong hobori											
	<u> </u>											
HYDROLO	-											
Wetland Hyde	tors (any one is		`							cators (two or more are required) ned Leaves (B9)		
		5 Sumcleni)		undation \/i	cible on A	erial Image	(D7)	_	Patterns (B10)		
High Wate	. ,						ncave Surfa					
Saturation					rl Deposits		icave Suita		Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)			
Water Ma					drogen Sul	· ·	(C1)		\square Salt Deposits (C5)			
	Deposits (B2)			_	y-Season V					Stressed Plants (D1)		
	,				her (Explai		• •			ic Position (D2)		
	or Crust (B4)						11(3)		Shallow Ac	. ,		
Iron Depo									_	Iraphic Relief (D4)		
	oil Cracks (B6)								FAC-neutra			
Field Observa	. ,											
Surface Water		Yes \bigcirc	No 🖲	De	pth (inche	s):						
Water Table P	Present?	Yes 🖲	No 〇	De	pth (inche	, .), 7		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre				De	pun (inche	5): 7		ii celu	nu nyurology rresen			
(includes capi		Yes 🔍	No \bigcirc	De	pth (inche	s): 1						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
-												