## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City: Matanusl		a-Susitna Borough Sampling Date: 04-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T150_08			
Invest	igator(s): SLI, EAC		Landform (hill	e, hummocks etc.): Swale				
Local	relief (concave, convex, none): concave		Slope:	% / 5.1	° Elevation: 762			
Subre	gion : Interior Alaska Mountains	Lat.:	63.329732655	63.3297326558 Long.: -148.283426404 Datum:				
	ap Unit Name:				NWI classification: PSS1/EM1B			
	imatic/hydrologic conditions on the site typical for this ti	ime of ve	ar? Yes	No ○	(If no, explain in Remarks.)			
Are '	Vegetation , Soil , or Hydrology , Vegetation , Soil , or Hydrology , Soil , or Hydrology , or H	significar naturally wing sa	ntly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes  No O			
	Hydrophytic Vegetation Present? Yes   No			the Com	wlad Auso			
	Hydric Soil Present? Yes   No		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes   No	)	WI	itnin a w	etiand? Tes © NO ©			
	betgla understory. this feature is too small to ma	p separat	ely, consider an	inclusion w	signature in aerial. surrounding hillside pss1b fnwws with within overall pss1b wetland.			
		Absolut		Indicator	Dominance Test worksheet:			
Tre	ee Stratum	% Cove		Status	Number of Dominant Species			
1.	Picea mariana	_ 7	✓	FACW	That are OBL, FACW, or FAC: 7 (A)			
2.	Picea glauca	3	✓	FACU	Total Number of Dominant Species Across All Strata:  8 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 87.5% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	<u> 10</u>	_		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	5 20	% of Total Cover:		OBL Species7 x 1 =7			
1.	Picea mariana	5	$\checkmark$	FACW	FACW Species 20.1 x 2 = 40.20			
2.	Picea glauca	2		FACU	FAC Species <u>52.1</u> x 3 = <u>156.3</u>			
3.	Betula glandulosa	3		FAC	FACU Species <u>5.1</u> x 4 = <u>20.4</u>			
4.	Vaccinium vitis-idaea	2		FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Dasiphora fruticosa	5	✓	FAC	Column Totals: <u>84.3</u> (A) <u>223.9</u> (B)			
6.	Salix reticulata	10	_	FAC				
7.	Salix pulchra	5	_	FACW	Prevalence Index = B/A =2.656_			
8.	Empetrum nigrum	5	✓	FAC	Hydrophytic Vegetation Indicators:			
9.	Rhododendron tomentosum	2	_	FACW	✓ Dominance Test is > 50%			
10.		0	_		Prevalence Index is ≤3.0			
	Total Cover rb Stratum 50% of Total Cover:			= 0	Morphological Adaptations (Provide supporting data in			
	- Sociatain				Remarks or on a separate sheet)			
	Carex aquatilis			OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Equisetum arvense	25		FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
	Cornus suecica	0.1		FACW	be present, unless distarbed of problematic.			
5.	Swertia perennis  Carex bigelowii			FAC	Plot size (radius, or length x width)			
6.	Carox mombranacoa			FACW	% Cover of Wetland Bryophytes (Where applicable)			
7.	Managan uniflora	0 1		FACU	, , ,			
8.					% Bare Ground  Total Cover of Bryophytes 90			
			- =		10th Cover of Dryophytes90			
		0			Hydrophytic			
10		. 25.2	_		Vegetation			
10.	Total Cover	<b>:</b> _35.3	_		Present? Yes   No			

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SOIL Sampling Point: SW13\_T150\_08

Profile Descripti	on: (Describe to	the depth n	eeded to docum	nent the indicator or co	onfirm the ab		ators)				
Depth (inches)				1			Loc <sup>2</sup>	Texture	Remarks		
0-8	Color (m 5YR	2.5/1	<u>%</u>	Color (moist)	<u>%</u>	Туре	LOC	Fibric Organics	Remarks		
								-			
8-13	10YR	3/2						Coarse Loamy Sand	70% angular and subrounded cobble 20%		
									•		
							-		. ———		
¹Type: C=Cor	centration. D	=Depletion	. RM=Reduce	ed Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	<b>4</b> 4)		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	. ,			Alaska Alpine	swales (TA	5)	Underlying Layer				
	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue		Other (Explain in Remarks)			
	Surface (A12	2)									
Alaska Gle	-	-,						mary indicator of wetland I	nydrology,		
Alaska Red				and an appropria	ite landscap	be position r	nust be pro	esent			
	yed Pores (A	15)		<sup>4</sup> Give details of o	color chang	e in Remark	IS .				
Restrictive Laye	er (if present)	:									
Type:								Hydric Soil Present	? Yes • No ·		
Depth (inch	ies):							,			
Remarks:	•										
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	be. not sure. tried							
HYDROLO	GY										
Wetland Hydi		ators:						Secondary Ind	cators (two or more are required)		
Primary Indica			t)					Water Stained Leaves (B9)			
Surface W	ater (A1)			☐ Inundation \	/isible on A	erial Image	rv (B7)				
	✓ High Water Table (A2)  Sparsely Vegetated Conca								thizospheres along Living Roots (C3)		
✓ Saturation	(A3)			☐ Marl Deposit			()		of Reduced Iron (C4)		
☐ Water Mai	. ,			Hydrogen Su	, ,	(C1)		Salt Depos	sits (C5)		
	Sediment Deposits (B2)  Dry-Season Water Table (C2)								Stressed Plants (D1)		
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								ic Position (D2)		
Algal Mat or Crust (B4)									quitard (D3)		
Iron Deposits (B5)									graphic Relief (D4)		
	oil Cracks (B6	)						✓ FAC-neutra			
Field Observa	•	,									
Surface Water		Yes C	No 💿	Depth (inch	es):						
Water Table P			No O	, ,	•		Wetla	nd Hydrology Preser	it? Yes ● No ○		
				Depth (inch	es): 11		Wetia	ila riyarology Freser	it: les 🔾 NO 🔾		
Saturation Present? (includes capillary fringe)  Yes No Depth (inches): 6											
Describe Record	ded Data (str	eam gauge	, monitor wel	l, aerial photos, pre	evious inspe	ection) if ava	ailable:				
Remarks:											

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