WETLAND DETERMINATION DATA FORM - Alaska Region

,	Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Jun-1.	2					
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T10_0	03					
nvestigator(s): SLI, LMF Landform (hillside, terrace, hummocks etc.): Alluvial fan											
-	elief (concave, convex, none): rolling		Slope:	% / 4.0							
	ion : Southcentral Alaska	L at :	62.784738334		Long.: -149.661835745 Datum: NAD	83					
-		Lai ₋	02.704730334	+1							
	p Unit Name:			<u> </u>	NWI classification: PSS1C						
	natic/hydrologic conditions on the site typical for this ti	•		● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○						
		•	y disturbed?		omar on outhour process.						
Are V	egetation 🗹 , Soil 🗹 , or Hydrology 🗌	naturally p	roblematic?	(If nee	ded, explain any answers in Remarks.)						
SUMN	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes ● No ◯)									
	Hydric Soil Present? Yes ● No C	the Sam	ne Sampled Area								
	Wetland Hydrology Present? Yes No C		w	ithin a W	/etland? Yes ● No ○						
	rks: large portions of site flooded, with salix in standing		ully submerae	d geumac, o	calcan, and chalat, high water event, yeg community	v and					
	soils suggest that this is typically much more dry.		, 5.	3							
VECE	TATION			1.							
/EGE	TATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dominance Test worksheet:						
T	Charles	Absolute % Cover		Indicator Status	Number of Dominant Species						
1 ree	: Stratum	<u>% Cover</u>	_ species?	Status		(A)					
2.		-			Total Number of Dominant						
3.						(B)					
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)					
5.											
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:						
San	ing/Shrub Stratum 50% of Total Cover:		of Total Cover	: 0	0.00						
					OBL Species 0 x 1 = 0 FACW Species 4.1 x 2 = 8.2						
	Rubus idaeus	1		FACU	FAC Species 46 x 3 = 138						
	Alnus incana			FAC	FACU Species 26 x 4 = 104						
	Salix glauca	0.1		FAC FACW	UPL Species 1 x 5 = 5						
	Salix lasiandra Populus balsamifera	10		FACU		 .					
6.	Calix alayonaia	5		FAC	Column Totals:77.1 (A)255.2	(B)					
	Salix richardsonii	3		FACW	Prevalence Index = B/A = 3.310						
8.				-71011	Hydrophytic Vegetation Indicators:						
9.		0			Dominance Test is > 50%						
10.					Prevalence Index is ≤3.0						
	Total Cover	41.1			☐ Morphological Adaptations ¹ (Provide supporting dat	ta in					
Herl	Stratum 50% of Total Cover:	20.55 20%	% of Total Cove	r: <u>8.22</u>	Remarks or on a separate sheet)						
1.	Chamaenerion latifolium	_10	✓	FAC	✓ Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Artemisia tilesii	3		FACU	¹ Indicators of hydric soil and wetland hydrology must						
3.	Calamagrostis canadensis		✓	FAC	be present, unless disturbed or problematic.						
4.	Carex spectabilis	1		FACW	Plot size (radius, or length x width) 10m						
5.	Geum macrophyllum			FAC	% Cover of Wetland Bryophytes						
6.	Taraxacum officinale	5	V	FACU	(Where applicable)	'					
1	Mertensia paniculata		✓	FACU	% Bare Ground 95						
	Hedysarum boreale			UPL	Total Cover of Bryophytes						
	Achillea millefolium			FACU							
10.	Equisetum scirpoides	1 26		FACU	Hydrophytic						
1	Total Cover	: <u>36</u>			Vegetation						
	50% of Total Cover:	18 20%	of Total Cover	7.2	Present? Yes • No O						

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SOIL Sampling Point: SW12_T10_03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Matrix Redox Features							cators)				
Depth (inches)								Texture	Bomarko		
	Color (mois			Color (moist)	<u>%</u>	Type ¹	_Loc_ ²		Remarks		
0-4	2.5Y	3/1	100					Sandy Clay			
4-15								Sand	coarse sand and 40% coarse gravel		
									-		
			———								
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduced	Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		J	Indicators for Pr	roblemati	c Hydric S	oils:				
	r Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s		•	_	Underlying Layer	de 31 of Redder		
	Sulfide (A4)		Γ	Alaska Redox V	-	-	✓	Other (Explain in Remark	(S)		
	. ,		_	_ Alaska Reads	/VIUI 2.51 .	luc		, oa (= p :			
	k Surface (A12)		:	³ One indicator of	f hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	lydrology,		
Alaska Gle				and an appropriat							
Alaska Red	aox (A14) eyed Pores (A15))		4 Give details of co	olor chang	e in Remarl	ks				
Restrictive Laye											
Type:	of (ii present).							Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):							Hyunc 3011 Fresent	f 165 C NO C		
Remarks:	105).										
HYDROLO	GY										
h	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
-	ators (any one is		<u> </u>					Water Stained Leaves (B9)			
Surface W	Vater (A1)			☐ Inundation V	/isible on A	erial Image	erv (B7)				
	High Water Table (A2) Sparsely Vegetated Concave Surface (I							hizospheres along Living Roots (C3)			
	Saturation (A3) Marl Deposits (B15)						oc (= - ,		of Reduced Iron (C4)		
☐ Water Mai	. ,			Hydrogen Su	,	(C1)		Salt Depos	` ,		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
✓ Drift Depo	. ,			Other (Explain					ic Position (D2)		
	or Crust (B4)					110)		_	quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	ioil Cracks (B6)								al Test (D5)		
Field Observa	• • •		-				1				
Surface Water		Yes \bigcirc	No 💿	Depth (inche	es):						
Water Table P	Present?	Yes	No O	Depth (inche	oc). 15		Wetlar	nd Hydrology Presen	it? Yes • No O		
Saturation Pre				, ,	,				- 100		
(includes capil		Yes •	No ∪	Depth (inche	es): 13						
Describe Record	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
	sitna river. Flood	ding at this	site would pr	imarily occur from	n small ups	stream tribu	tary. Locate	ed on branch off main perr	manently flooded channel and flood		
frequency may		-		•	•		•		•		

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