## WETLAND DETERMINATION DATA FORM - Alaska Region

	e: Susitna-Watana Hydroelectric Project		Boroug	h/City:	Denali Bo	rough Sampling Date: 02-Aug-13						
Applicant/	Owner: Alaska Energy Authority		_		-	Sampling Point: SW13_T149_06						
nvestigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Hillside												
-	f (concave, convex, none): undulating		— Slope		% / 22.2							
	: Interior Alaska Mountains	l at	— . ∷ 63.38 <sup>,</sup>	15570/1		Long.: -148.480063319 Datum: NAD83						
_		Lat	03.36	1557941	1							
•	nit Name:				No ○	NWI classification: PSS1C						
Are Vege	etation	significa naturall owing s	antly distu y problem	rbed? atic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.						
	drophytic Vegetation Present? Yes  No (  No (  Yes  Yes  No (  Yes  Yes  No (  Yes  Yes  Yes  No (  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes		Is the Sampled Area									
-	tland Hydrology Present? Yes   No   No   No   No   No   No   No   N			wi	thin a W	/etland? Yes ◉ No ○						
Remarks				<u> </u>								
	ATION - Use scientific names of plants.	Absol	ute Don	ninant	Indicator	Dominance Test worksheet:						
Tree St		% Co		ecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3 (A)						
-	cea glauca		3		FACU	Total Number of Dominant						
2. —			0			Species Across All Strata:3 (B)						
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.			0			111at Ale OBE, 1 AGW, 01 1 AG. 100.070 (A/B)						
J. —	Total Cove		<u>U</u>	Ш		Prevalence Index worksheet:						
Sanline	/Shrub Stratum 50% of Total Cover:	Total % Cover of: Multiply by:										
Sapining	75iii ub Stratuiii		2070 01 100			OBL Species 0 x1 = 0						
	nus viridis		90	<b>✓</b>	FAC	FAC Species 36 x 2 = 72						
_	lix pulchra		30		FACW	FAC Species 93 x 3 = 279 FACU Species 7,1 x 4 = 28,4						
	viraea stevenii		3		FACU	FACU Species 7.1 x 4 = 28.4 UPL Species 0 x 5 = 0						
	bes triste		1		FACU							
	nnaea borealis		0.1		FACU	Column Totals: <u>136.1</u> (A) <u>379.4</u> (B)						
6. — 7.			0			Prevalence Index = B/A =						
8.			0			Hydrophytic Vocatation Indicators						
			0			Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%						
40			0	$\bar{\Box}$								
10												
1. Ar	ctagrostis latifolia		5	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
	cranthes nelsoniana		1		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3. Pe	etasites frigidus		1		FACW	be present, unless disturbed or problematic.						
4. Sr	pinulum annotinum		1		FACU	Diet size (vadius av langth v width)						
5. Po	olemonium acutiflorum		1		FAC	Plot size (radius, or length x width)						
6			0			(Where applicable)						
7			0			% Bare Ground						
8			0			Total Cover of Bryophytes						
9			0									
10	Hydrophytic											
1	<b>Total Cove</b> 50% of Total Cover:		 20% of Tota	al Carrer	4.0	Vegetation Present? Yes ● No ○						
				JII OVAR		rresent: 163 ~ 110 ~						

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SOIL Sampling Point: SW13\_T149\_06

	ion: (Describe to	the depth n	eeded to docu	ment the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (m			Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-5	7.5YR	2.5/2	100	Color (Illoist)	- 70	туре	LUC	Sapric Organics			
			100					Sapric Organics			
5-15	7.5YR	3/2	100		-			Sapric Organics			
	-						-				
1 1		=Depletion	ı. RM=Reduc	ced Matrix <sup>2</sup> Locatio				nnel. M=Matrix			
Hydric Soil I				Indicators for P		4	oils:	ו			
	Histel (A1)			Alaska Color C				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip	edon (A2)			Alaska Alpine	•	•					
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue		Other (Explain in Remark	SS)		
Thick Dark	Surface (A12	2)		30 : di					uduala au		
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland h esent	yarology,		
Alaska Red	dox (A14)					•	•				
Alaska Gle	yed Pores (A	15)		<sup>4</sup> Give details of o	olor chang	e in Remark	S.				
Restrictive Laye	er (if present)	:									
Type: activ	ve layer							Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 20										
HYDROLO	GY										
Wetland Hydi		ators:						_Secondary Indic	cators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)					Water Stair	ned Leaves (B9)		
Surface W	/ater (A1)			☐ Inundation \	/isible on A	erial Imagei	ry (B7)	☐ Drainage P	atterns (B10)		
	er Table (A2)			Sparsely Veg		_		Oxidized RI	hizospheres along Living Roots (C3)		
Saturation	n (A3)			Marl Deposit			` ,		f Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Deposi	its (C5)		
✓ Sediment		)		Dry-Season					Stressed Plants (D1)		
☐ Drift Depo				Other (Expla				Geomorphi	ic Position (D2)		
	or Crust (B4)			_ 、 .		,		✓ Shallow Aq	uitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)		
Surface So	oil Cracks (B6	)						<b>✓</b> FAC-neutra			
Field Observa	ations:	-									
Surface Water	Present?	Yes	No ●	Depth (inch	es):						
Water Table P	resent?	Yes (	No ●	Depth (inch	2011		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Deput (inch	25).			,	- 100 - 110 -		
(includes capi		Yes C	No •	Depth (inche	es):						
Describe Recor	ded Data (str	eam gauge	, monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
	citc in portion	of alder th	icket indicat	o coaconal flooding							
seument depos	sics iii portion	oi aiuer th	icket ilidicati	e seasonal flooding.							

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