## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	1	Borough/City:	Denali Bo	orough Sampling Date: 03-Aug-13			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T194_07			
Investigator(s): SLI, EAC	lside, terrac	ce, hummocks etc.): Kettle					
Local relief (concave, convex, none): concave				O ° Elevation: 834			
Subregion : Interior Alaska Mountains	Lat ·	63.35348820		Long.: -148.332963586 Datum: WGS84			
Soil Map Unit Name:	Lat	03.33340020	<u> </u>	NWI classification: PEM1E			
Are climatic/hydrologic conditions on the site typical for this t	lima af uaa	-2 Voc	● No ○				
		r? res ly disturbed?		(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○			
	-	roblematic?		eded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes   No	$\supset$		the Com	sulad Avea			
Hydric Soil Present? Yes ● No	$\supset$		Is the Sampled Area within a Wetland? Yes  No  No				
Wetland Hydrology Present? Yes   No	$\supset$	W	within a Wetland? Yes ● No ○				
Remarks: narrow hgwsl fringe of small pond, believe this	s is about t	0.25 acres ste	en hanks dr	ron down to nond fringe			
narrow rights minge of small policy believe this	o is about	0120 del est ste	cp barno ar	op down to pond milger			
<b>VEGETATION</b> - Use scientific names of plants. L	ist all sp.	ecies in the	plot.				
	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)			
1	0			That are OBL, FACW, or FAC: (A)  Total Number of Dominant			
2	0	. $\square$		Species Across All Strata: (B)			
3.	0	. 📙		Percent of dominant Species			
4	0	. 📙		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5	0	. 📙		Prevalence Index worksheet:			
Total Cover		Total % Cover of: Multiply by:					
Sapling/Shrub Stratum 50% of Total Cover:	0 209	6 of Total Cover	:0	OBL Species <u>80</u> x 1 = <u>80</u>			
1	0			FACW Species 0 x 2 = 0			
2.				FAC Species <u>0.2</u> x 3 = <u>0.600</u>			
3		. 📙		FACU Species 0 x 4 = 0			
4		. 📙		UPL Species <u>0</u> x 5 = <u>0</u>			
5				Column Totals: <u>80.2</u> (A) <u>80.60</u> (B)			
6				Prevalence Index = B/A = 1.005			
7				1.005			
8.				Hydrophytic Vegetation Indicators:			
9.	0			✓ Dominance Test is > 50%			
Total Cove		. 🗀		✓ Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cover:		% of Total Cove	r: 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
Carex aquatilis	80	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Calamagrostis canadensis			FAC	Indicators of hydric soil and wetland hydrology must			
Equisetum arvense	0.1		FAC	be present, unless disturbed or problematic.			
	0			Distriction (undividence on longth v. viii 14th )			
4	_			Plot size (radius, or length x width) 2m x 5m			
4.       5.	0						
				% Cover of Wetland Bryophytes (Where applicable)			
5	0						
5	0			(Where applicable)			
5	0 0 0			(Where applicable)  % Bare Ground			
5	0 0 0 0			(Where applicable)  % Bare Ground  Total Cover of Bryophytes  Hydrophytic			
5	0 0 0 0 0 0			(Where applicable)  % Bare Ground  Total Cover of Bryophytes			

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SOIL Sampling Point: SW13\_T194\_07

Profile Descripti	ion: (Describe to	the depth n	eeded to docur	ment the in-	dicator or cor	nfirm the at	sence of indic	cators)		<del>_</del>
Depth		Matrix				lox Featu			_	
(inches)	Color (mo	ist)	%	Color (n	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	7.5YR	2.5/1	100						Fibric Organics	
6-12	7.5YR	3/1	80	10G	4/1	20		PL	Loamy Coarse Sand	
						-				
									-	
					-					
¹Type: C=Cor	ncentration. D=	-Depletion	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil I	ndicators:			Indicat	ors for Pr	oblemati	ic Hydric So	oils:		
	r Histel (A1)				ska Color Ch		4		Alaska Gleyed Without Hu	ie 5Y or Redder
Histic Epip	. ,				ska Alpine sv		-	_	Underlying Layer	c 31 of reader
	Sulfide (A4)				ska Redox W				Other (Explain in Remarks	5)
	Surface (A12)	١				= :				
Alaska Gle		,							mary indicator of wetland hy	drology,
Alaska Red				and an	appropriate	e landscap	pe position r	must be pre	esent	
	eyed Pores (A1!	5)		4 Give	details of co	lor chang	je in Remark	ks		
	•	•								
Restrictive Laye	er (If present):									Yes • No O
Type:	· - =1.								Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):									
Remarks:										
HYDROLO	GY									
Wetland Hyd		tors:							Secondary Indic	ators (two or more are required)
Primary Indica			it)							ned Leaves (B9)
Surface W	/ater (A1)			In	undation Vi	isible on A	Aerial Image	ery (B7)		atterns (B10)
✓ High Wate	er Table (A2)						ncave Surfac			nizospheres along Living Roots (C3)
✓ Saturation	` ,				arl Deposits					Reduced Iron (C4)
☐ Water Ma	. ,				ydrogen Sul	. ,	(C1)		Salt Deposi	ts (C5)
	Deposits (B2)				ry-Season W					Stressed Plants (D1)
☐ Drift Depo					ther (Explain		. ,			Position (D2)
	or Crust (B4)			<u>—</u>			,		Shallow Aqu	
✓ Iron Depo										raphic Relief (D4)
Surface S	oil Cracks (B6)								✓ FAC-neutral	
Field Observa	ations:				-					
Surface Water	r Present?	Yes C	O No ●	D <sub>i</sub>	epth (inches	s):				
Water Table P			No O			•		Wetla	nd Hydrology Present	t? Yes • No O
Saturation Pre					epth (inches	•		1100.0.	ila riyarology cco	100
(includes capi		Yes 🕒	No O	De	epth (inches	s): 0				
Describe Recor	ded Data (stre	am gauge	, monitor we	ll, aerial p	hotos, prev	/ious inspe	ection) if ava	ailable:		
	,	3 3 .	,	, ,	, ,	·	,			
Remarks:										
iron floc on sub	ostrate.									

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