WETLAND DETERMINATION DATA FORM - Alaska Region

·	/Site: Susitna-Watana Hyd	roelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 31-Jul-13					
Applica	nt/Owner: Alaska Energy A	Authority			-	Sampling Point: SW13_T158_07					
investigator(s): CTS, AMD Landform (hillside, terrace, hummocks etc.): Flat											
-	elief (concave, convex, none)	: concave		Slope: 0.0							
	ion : Interior Alaska Mountai		l at ·	63.372962356		Long.: -148.763766289 Datum: WGS84					
		1115	Lat	03.372902330)						
	p Unit Name:			- \	No ○	NWI classification: Upland					
Are V	natic/hydrologic conditions on egetation , Soil	, or Hydrology	significant naturally p wing sar	tly disturbed? problematic?	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.					
	Hydrophytic Vegetation Prese	ent? Yes ● No C Yes ○ No ●		Is	the Sam	npled Area					
	Hydric Soil Present?			within a Wetland? Yes ○ No •							
	Wetland Hydrology Present?	Yes O No 🗨									
Rem	TATION -Use scientific	names of plants. Li			·	Dominance Test worksheet:					
Tre	e Stratum		Absolute % Cove		Indicator Status	Number of Dominant Species					
1.	Sudum		0		<u> Julius</u>	That are OBL, FACW, or FAC:3 (A)					
2.			0	- <u> </u>		Total Number of Dominant Species Across All Strata: 4 (B)					
3.			0	-							
4.			0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)					
5.			0	-		Duestalawaa Taday waalkahaati					
		Total Cover:		_		Prevalence Index worksheet: Total % Cover of: Multiply by:					
Sap	ling/Shrub Stratum	50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species 1 x 1 = 1					
1	Dioca alcues		2	✓	FACU	FACW Species 2 x 2 = 4					
	Picea glauca Betula nana		3		FAC	FAC Species 38.1 x 3 = 114.3					
3.	Salix fuscescens			- 🗸	FACW	FACU Species 4.2 x 4 = 16.8					
	Manadal and Manada			_	FAC	UPL Species 0 x 5 = 0					
5.				-	-710						
6.						Column Totals: <u>45.3</u> (A) <u>136.1</u> (B)					
7.			0			Prevalence Index = B/A = 3.004					
8.			0	-		Hydrophytic Vegetation Indicators:					
9.			0	_		✓ Dominance Test is > 50%					
10.			0			Prevalence Index is ≤3.0					
Her	b Stratum	Total Cover: 50% of Total Cover:		_ _ l% of Total Cover	: 1.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
	Festuca altaica		30	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)					
2.	Calamagrostis canadensis		4	- <u> </u>	FAC	¹ Indicators of hydric soil and wetland hydrology must					
3.	Artemisia pervegica		0.1		FACU	be present, unless disturbed or problematic.					
4.	Dubus cretions (IAM)				FACU	District of all and booth with the					
5.	Canal binalassii		0.1		FAC	Plot size (radius, or length x width) % Cover of Wetland Bryophytes					
6.	Triantalia auranaaa		0.1		FACU	(Where applicable)					
7.	Carex Ioliacea		1	_	OBL	% Bare Ground					
8.			0			Total Cover of Bryophytes 30					
10.			0	_		Hydrophytic					
		Total Cover:		_ % of Total Cover:		Vegetation Present? Yes ● No ○					
1											

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SOIL Sampling Point: SW13_T158_07

		the depth ne	eded to docun	nent the indicator or co	nfirm the ab		ators)					
Depth (inches)	Color (mo	ist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2		isty	100	color (moise)		1,700		Hemic Organics				
	10YR	2/2	100					Silt Loam				
2-20		2/2						SIIL LOBIN				
Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location	n: PL=Pore	– ——— e Lining. RC	=Root Cha	annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblematio	c Hydric So	oils: ³					
Histosol or Histel (A1) Alaska Color Change (TA4)								Alaska Gleyed Without Hu	ue 5Y or Redder			
Histic Epip	` '			Alaska Alpine s				Underlying Layer				
	Sulfide (A4)			Alaska Redox V	•	•		Other (Explain in Remarks)				
	Surface (A12)											
Alaska Gle								mary indicator of wetland h	ydrology,			
Alaska Red				and an appropriat	e landscap	e position r	nust be pre	esent				
	eyed Pores (A15	5)		⁴ Give details of co	olor change	e in Remark	S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):											
HYDROLO												
Wetland Hyd									cators (two or more are required)			
	tors (any one i	s sufficient	:)					Water Stained Leaves (B9)				
Surface Water (A1)				Inundation V	isible on A	erial Imager	ry (B7)	_	atterns (B10)			
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)		nizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	s (B15)				f Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su	lfide Odor	(C1)		Salt Deposi	ts (C5)			
Sediment	☐ Dry-Season V	Vater Table	e (C2)			Stressed Plants (D1)						
Drift Depo				Uther (Explai	n in Rema	rks)			c Position (D2)			
<u> </u>								☐ Shallow Aq				
Iron Depo	sits (B5)							☐ Microtopog	raphic Relief (D4)			
Surface S	oil Cracks (B6)						1	☐ FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Water	r Present?	Yes 🤇	No 💿	Depth (inche	s):							
Water Table P	Present?	Yes C	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿			
Saturation Pre (includes capi		Yes C	No •	Depth (inche	s):							
Describe Recor	ded Data (stre	am gauge,	monitor wel	l, aerial photos, prev	ious inspe	ection) if ava	nilable:					
Remarks:												
no wetland hydrology indicators												

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