WETLAND DETERMINATION DATA FORM - Alaska Region

	ite: Susitna-Watana Hydroe	electric Project		orough/City:	Denali Bo	rough Sampling Date: 30-Jul-13			
Applicant	/Owner: Alaska Energy Autl	nority				Sampling Point: SW13_T147_03			
Investiga			ide, terrace, hummocks etc.): Flat						
Local reli	ef (concave, convex, none):	concave		Slope: 2.0	% / 1.1	° Elevation: 668			
	n: Interior Alaska Mountains		lat: 6	33.376047969		Long.: -148.943872452 Datum: WGS84			
_	Unit Name:			33.370047303	<u>'</u>	NWI classification: PEM1F			
	-			. V	No ○				
Are Veg	getation , Soil ,	or Hydrology	significantly naturally pro	disturbed?	Are "No	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) , transects, important features, etc.			
H	ydrophytic Vegetation Present	? Yes 💿 No 🖯)			1.14			
H	ydric Soil Present?	Yes ● No C)	Is the Sampled Area within a Wetland? Yes No					
W	/etland Hydrology Present?	Yes No)	Wi	thin a W	etland? Yes © No C			
Remar									
	ATION - Use scientific na	ames of plants. Li	st all spec	Cies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.	buatum		0		Status	That are OBL, FACW, or FAC:3 (A)			
2.			0			Total Number of Dominant			
3.						Species Across All Strata: 3 (B)			
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B			
5.			0						
_		Total Cover	0	_		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Saplin	g/Shrub Stratum 5	0% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 15.1 x 1 = 15.1			
-		_				FACW Species 6.3 $\times 2 = 12.6$			
_	mpetrum nigrum			✓	FAC FAC	FAC Species 9.1 x 3 = 27.30			
_	/accinium uliginosum /accinium vitis-idaea		0.1		FAC	FACU Species 0 x 4 = 0			
_	adum daarmahana		2		FACW	UPL Species 0 x 5 = 0			
_	Betula nana		3	✓	FAC	· — — — — — — — — — — — — — — — — — — —			
_	andromeda polifolia (IAM)		0.1		OBL	Column Totals: <u>30.5</u> (A) <u>55.00</u> (
7.	and on our pomona (ii an)		0			Prevalence Index = B/A =1.803_			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
			0			✓ Prevalence Index is ≤3.0			
		Total Cover 50% of Total Cover:		of Total Cover	: 2.24	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1. <u>E</u>	Friophorum vaginatum		_1_		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2	Carex rotundata		15	~	OBL	¹ Indicators of hydric soil and wetland hydrology must			
	Pedicularis langsdorfii				FACW	be present, unless disturbed or problematic.			
_	Friophorum russeolum		0.1		FACW	Plot size (radius, or length x width)			
_	Rubus chamaemorus		3		FACW	% Cover of Wetland Bryophytes			
	Pedicularis labradorica		0.1		FACW	(Where applicable)			
_			•			% Bare Ground <u>0.1</u>			
						Total Cover of Bryophytes 60			
10. —		Total Cover				Hydrophytic Vegetation			
	5	0% of Total Cover:		of Total Cover:	3.86	Present? Yes • No O			
	ks: Carrot dominating perma			,					

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

		he depth nee latrix	ded to docum	nent the indicator or cor	nfirm the ab		ators)		
Depth (inches)	Color (moi	st)	<u> </u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	Color (IIIo	3 .,	100	Color (moist)	_/0_	Турс	LUC	Fibric Organcis	
								-	
¹Type: C=Co	ncentration. D=	Depletion. I	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix	
Hydric Soil I	indicators:			Indicators for Pro		4	oils:	_	
✓ Histosol or Histel (A1)				Alaska Color Ch	nange (TA	4) -		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epi	pedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue Uther (Explain in Remarks)					
☐ Thick Dar	k Surface (A12)			2					
Alaska Gle	eyed (A13)			 One indicator of and an appropriat 				nary indicator of wetland h	ydrology,
Alaska Re	dox (A14)					·	•		
Alaska Gle	eyed Pores (A15)		⁴ Give details of co	olor chang	e in Remark	S		
Restrictive Lay	er (if present):								
Type: Act	ive layer							Hydric Soil Present	? Yes 💿 No 🔾
Depth (inc	hes): 23								
HYDROLO	GY								
Wetland Hyd	lrology Indica	tors:						Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one is	sufficient)						Water Stair	ned Leaves (B9)
✓ Surface V	Vater (A1)			✓ Inundation Vi	isible on A	erial Imager	y (B7)	✓ Drainage P	atterns (B10)
High Wat	er Table (A2)			✓ Sparsely Vege	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturatio	n (A3)			Marl Deposits	s (B15)			Presence o	f Reduced Iron (C4)
☐ Water Ma	arks (B1)			Hydrogen Sul	lfide Odor	(C1)		Salt Depos	its (C5)
Sediment	t Deposits (B2)			Dry-Season V	Vater Tabl	e (C2)		Stunted or	Stressed Plants (D1)
Drift Dep	osits (B3)			Other (Explai	n in Rema	rks)		✓ Geomorphi	ic Position (D2)
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)
Iron Dep	osits (B5)							Microtopog	raphic Relief (D4)
☐ Surface S	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)
Field Observ	ations:								
Surface Wate	er Present?	Yes 🕑	No O	Depth (inche	s): 3				
Water Table	Present?	Yes \bigcirc	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pr		Yes 〇	No •	Depth (inche	s):				
(includes cap Describe Reco				ll, aerial photos, prev		ection) if ava	ilable:		
	•	'			•	-			
Remarks:									

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