WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelec	tric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Jul-13		
Applica	nt/Owner: Alaska Energy Authori	ty				Sampling Point: SW13_T187_06		
nvesti	gator(s): JGK				e, hummocks etc.): Lowland			
_ocal r	elief (concave, convex, none): ht	ummocky		Slope: 0.0 % / 0.0 ° Elevation: 627				
Subreg	ion : Interior Alaska Mountains		Lat.:	62.83878231 Long.: -148.197710037 Datum: WGS8				
Soil Ma	p Unit Name:			NWI classification: PSS4/1B				
Are V	egetation , Soil , or	Hydrology	gnificantly aturally pr	/ disturbed? oblematic?	(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 Present? Hydric Soil Present? Wetland Hydrology Present? arks: DUNN SITE 1450 SOIL 1451	Yes No No Yes No			the Sam thin a W	pled Area etland? Yes No		
/EGE	TATION - Use scientific nam	es of plants. Lis	t all spe	cies in the	plot.			
		ı	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	Stratum	_	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)		
	Picea mariana		5	~	FACW	Total Number of Dominant		
2.			0			Species Across All Strata:5(B)		
3.						Percent of dominant Species		
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)		
5. San	ling/Shrub Stratum 50%	Total Cover: of Total Cover: 2.	0 5 5	of Total Cover:	1	Prevalence Index worksheet: Total % Cover of: Multiply by:		
Зар	mig/siirub stratum 50%	<u> 2.</u>		_		OBL Species 0 x 1 = 0		
1.	Picea mariana		35	✓	FACW	FAC Species 68 x 2 = 136		
2.			35	✓	FAC	FAC Species 95 x 3 = 285 FACU Species 0 x 4 = 0		
3.	Manadali in idana		15		FAC	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0		
4. 5.	Vaccinium vitis-idaea Salix pulchra		10		FACW			
6.	Ledum decumbens		15		FACW	Column Totals: <u>163</u> (A) <u>421</u> (B		
	Empetrum nigrum		20	П	FAC	Prevalence Index = B/A = 2.583		
			0		-710	Hydrophytic Vegetation Indicators:		
_			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
		Total Cover: of Total Cover:66	of Total Cover	: 26.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii		15	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Public chamaemorile		10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.			0			be present, unless disturbed or problematic.		
4.						Plot size (radius, or length x width) 10m		
						% Cover of Wetland Bryophytes 25		
						(Where applicable)		
						% Bare Ground2		
			0			Total Cover of Bryophytes 60		
						Hoden who die		
		Total Cover:	25	J		Hydrophytic Vegetation		
10.								
10.	50%	of Total Cover:12		of Total Cover:	5	Present? Yes • No O		

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SOIL Sampling Point: SW13_T187_06

		he depth nee latrix	ded to docum	ment the indicator or co	onfirm the ab		cators)			
Depth (inches)	Color (moi		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-8	Color (IIIOI	st)		Color (Illoist)		Туре	LOC	Fibric Organics	+	
8+								Sandy Silt	· · · · · · · · · · · · · · · · · · ·	
								- Canay One	,	
									M.	
								p-		
¹Type: C=Co	ncentration. D=	——— — Depletion. I		ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix	-	
Hydric Soil I	indicators:			Indicators for Pr	roblemati	c Hydric S	oils:			
	r Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	lue 5Y or Redder	
	pedon (A2)			Alaska Alpine s				Underlying Layer		
=	Sulfide (A4)			☐ Alaska Redox \	-			Other (Explain in Remarks)		
_ ′ ′	k Surface (A12)									
	eyed (A13)							nary indicator of wetland I	nydrology,	
Alaska Re				and an appropriat	te landscar	e position i	must be pre	esent		
	eyed Pores (A15)		⁴ Give details of co	olor chang	e in Remark	ks			
Restrictive Lay		<u></u>								
Type: ice	ci (ii picco.i.,							Hydric Soil Present	:? Yes ● No ○	
Depth (incl	hes): 8							Hydric Jon 1 155c	.: 103 0 110 0	
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)						Water Sta	ined Leaves (B9)	
Surface V	Vater (A1)			Inundation V	/isible on A	erial Image	ery (B7)	Drainage I	Patterns (B10)	
	✓ High Water Table (A2)					ncave Surfa	ce (B8)		Rhizospheres along Living Roots (C3)	
✓ Saturation	. ,			Marl Deposits	, ,				of Reduced Iron (C4)	
Water Ma	arks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Depos	sits (C5)	
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)	
☐ Drift Dep	` '			Other (Expla	in in Rema	rks)			ic Position (D2)	
	or Crust (B4)							✓ Shallow A		
☐ Iron Depo	` '								graphic Relief (D4)	
	Soil Cracks (B6)						ı	✓ FAC-neutra	al Test (D5)	
Field Observa			(2)							
Surface Wate	r Present?	_	No 💿	Depth (inche	es):					
Water Table F		Yes 💿	No \bigcirc	Depth (inche	es): 7		Wetlar	nd Hydrology Preser	nt? Yes No	
Saturation Pro (includes capi		Yes •	No O	Depth (inche	es): 2					
Describe Recor	rded Data (strea	m gauge, r	nonitor wel	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										
	areas 1-3 in de	ep								
, , , , , , , , , , , , , , , , , , ,										

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