WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T129_02		
	gator(s): JGK		Landform (hill	side, terrac	e, hummocks etc.): Mountainslope		
-	elief (concave, convex, none): gggbbv		Slope: 17.6		<u> </u>		
	ion : Southcentral Alaska		62.841758847		Long.: -149.010876298 Datum: WGS84		
•	p Unit Name:	Lat(32.04 17 30047		NWI classification: PSS1B		
) Van	No ○			
Are V	egetation	significantly naturally proving sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.) Iordad, explain any answers in Remarks.) Iordad, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes ● No C		lo	the Com	nlad Araa		
	Hydric Soil Present? Yes ● No C)			pled Area etland? Yes No O		
	Wetland Hydrology Present? Yes ● No C)	WI	thin a W	etiand? Tes © NO C		
Rema	arks: DUNN SITE 1408 SOIL 1410						
	TATION - Use scientific names of plants. Li	st all spe Absolute % Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:				Total % Cover of: Multiply by:		
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0		
1.	Arctostaphylos rubra	10		FAC	FACW Species 0.1 x 2 = 0.200		
	Saliv reticulata	10	П	FAC	FAC Species 66 x 3 = 198		
	Dryae octonetala	20	<u> </u>	UPL	FACU Species 0.2 x 4 = 0.800		
	Betula nana	5		FAC	UPL Species 20.1 x 5 = 100.5		
	Vaccinium uliginosum	15	✓	FAC	Column Totals: <u>86.4</u> (A) <u>299.5</u> (B)		
6.	Vaccinium vitis-idaea	2		FAC			
7.	Empetrum nigrum	1		FAC	Prevalence Index = B/A = 3.466		
8.	Salix pseudomonticola	1		FAC	Hydrophytic Vegetation Indicators:		
9.	Cassiope tetragona	0.1		FACU	✓ Dominance Test is > 50%		
10.		0			☐ Prevalence Index is ≤3.0		
Herl	Total Cover: 50% of Total Cover: 3		of Total Cover	12.82	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii	_20_	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Tofieldia pusilla	2		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Bistorta plumosa	0.1		FACU	be present, unless disturbed or problematic.		
4.	Astragalus umbellatus	0.1		UPL	Plot size (radius, or length x width)		
Ŭ.	Pedicularis labradorica			FACW	% Cover of Wetland Bryophytes 2		
					(Where applicable)		
					% Bare Ground		
					Total Cover of Bryophytes 30		
		0					
10.					Hydrophytic Vegetation		
	50% of Total Cover: 1		of Total Cover:	4.46	Present? Yes • No •		
					1		
Rema	arks: LICHEN 20						

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SOIL Sampling Point: SW13_T129_02

Danish	Matrix	eded to documer	t the indicator or conf Red e	firm the abs		ators)		
Depth (inches) Color	(moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2							Fibric Organics	
2-3							Hemic Organics	
3-10 7.5YF	3/2						Gravelly Silt Loam	color change 10 YR 3/3
								-
				-			-	
							-	
¹ Type: C=Concentration	n. D=Depletion.				_		nnel. M=Matrix	
Hydric Soil Indicators	:	I	ndicators for Pro	blematic	Hydric So	oils: ³		
Histosol or Histel (A	1)		Alaska Color Cha	ange (TA4)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2))	Ĺ	Alaska Alpine sw	-			Underlying Layer	
Hydrogen Sulfide (A	,	L	_ Alaska Redox W	ith 2.5Y H	ue		Other (Explain in Remar	(S)
Thick Dark Surface (,	3	One indicator of h	vdronhyti	c vegetatio	n one nrin	nary indicator of wetland I	aydrology
Alaska Gleyed (A13)			and an appropriate					rydiology,
Alaska Redox (A14) Alaska Gleyed Pores	(A15)	,	Give details of col	or change	in Remark	is.		
•								
Restrictive Layer (if prese Type: Frozen	ant).						Hydric Soil Present	? Yes • No O
Depth (inches): 16							nyunc son Fresent	i les 🔾 NO 🔾
Remarks:								
HYDROLOGY								
Wetland Hydrology In	dicators:						Secondary Indi	cators (two or more are required)
Wetland Hydrology In Primary Indicators (any		ı						cators (two or more are required)_ ned Leaves (B9)
, ,,			☐ Inundation Vis	sible on Ae	erial Image	ry (B7)	Water Sta	
Primary Indicators (anv Surface Water (A1) High Water Table (one is sufficient)		Inundation Vis		-	, , ,	Water Sta	ned Leaves (B9)
Primary Indicators (any Surface Water (A1) High Water Table (Saturation (A3)	one is sufficient)		Sparsely Vege Marl Deposits	tated Cond (B15)	cave Surfac	, , ,	Water Sta Drainage I Oxidized F	ned Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4)
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