WETLAND DETERMINATION DATA FORM - Alaska Region

· iojec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 21-Jun-12			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T32_05			
Investi	gator(s): JGK	lside, terrac	ce, hummocks etc.): Bench					
Local	elief (concave, convex, none): hummocky	% / 5.2	2 ° Elevation: 914					
Subred	ion : Interior Alaska Mountains	Lat ·	62.76268810					
	p Unit Name:	Lut						
	natic/hydrologic conditions on the site typical for this t	·	0 Voo	● No ○	NWI classification: Upland (If no, explain in Remarks.)			
Are V	regetation , Soil , or Hydrology , regetation , Soil , or Hydrology	significant naturally p wing sar	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No		la.	the Com	and Area			
	Hydric Soil Present? Yes O No		Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No		W	within a Wetland? Yes ○ No ●				
Rema	ETATION - Use scientific names of plants. L	•		•	Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 3 (A)			
2.		0		-	Total Number of Dominant Species Across All Strata: 5 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 60.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	: _0	_		Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species $0 \times 1 = 0$			
1.	Betula nana	10		FAC	FACW Species 10 x 2 = 20			
2.	Varatations official access			FAC	FAC Species 62 x 3 = 186			
3.	Vaccinium uliginosum Vaccinium vitis-idaea	- <u>- 5</u>	- <u> </u>	FAC	FACU Species 13 x 4 = 52			
4.	Arctous alpinus	10	-	FACU	UPL Species 0 x 5 = 0			
5.	Rhododendron tomentosum	10		FACW	Column Totals: <u>85</u> (A) <u>258</u> (B)			
6.	Empetrum nigrum	15	~	FAC				
7.	*	0			Prevalence Index = B/A = 3.035			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Her	Total Cover b Stratum 50% of Total Cover: _		_ 0% of Total Cove	r: <u>16</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii	2	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Bistorta plumosa			FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Anthoxanthum monticola ssp. alpinum	2		UPL	be present, unless disturbed or problematic.			
4.		_			Plot size (radius, or length x width)			
		•			% Cover of Wetland Bryophytes 0			
			- =		(Where applicable)			
			- =		% Bare Ground5			
			- 📙		Total Cover of Bryophytes			
9.			- 📙					
40					Hydrophytic Vegetation			
10.	Total Cover	: 5						

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SOIL Sampling Point: SW12_T32_05

		the depth ne	eeded to docum	ent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo	ist)		Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3	10YR	2/2	50	CO.O. (c.o.,				Silt Loam	25% roots 25% cobbles sub ang. 1-2 inch		
3-12	10YR	3/4	50				-	Sandy Clay Loam	35% subangular cobbles 2-4 inches 15%		
	101K							Sundy Gldy Edum	3376 Subangular Cobbies 2-4 filtries 1376		
								-			
¹Type: C=Cor	 ncentration. D=	Depletion	RM=Reduce	d Matrix ² Location	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblematio	Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA4	1) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	-	-		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	s)		
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrin	nary indicator of wetland h	vdrology		
Alaska Gle	, , ,			and an appropriat					yurology,		
Alaska Red	dox (A14) yed Pores (A15	5)		4 Give details of co	olor change	e in Remark	S				
Restrictive Laye											
Type:	(p. 656).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							,			
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient	:)					Water Stained Leaves (B9)			
Surface Water (A1)				☐ Inundation V	isible on A	erial Imagei	ry (B7)		atterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	s (B15)				f Reduced Iron (C4)		
Water Ma				Hydrogen Su				Salt Depos			
	Deposits (B2)	☐ Dry-Season \					Stressed Plants (D1)				
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								_	c Position (D2)		
☐ Algai Mat	or Crust (B4)								uitard (D3)		
	oil Cracks (B6)							FAC-neutra	raphic Relief (D4)		
Field Observa								TAC fledute	rest (D3)		
Surface Water		Yes C	No 💿	Depth (inche	:s):						
Water Table P			No 💿	Depth (inche	•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre			No O		•		1100101	, u. o.ogy . 1000	c. 165 9 NO 9		
(includes capi				Depth (inche							
Describe Recor	ded Data (stre	am gauge,	monitor well	, aerial photos, pre	vious inspe	ction) if ava	ailable:				
Remarks:											
no water table	associated w s	aturation									

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