WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 06-Jul-13				
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T103_01				
	gator(s): WAD, BAB	llside, terrac	ce, hummocks etc.): Mountainslope						
	relief (concave, convex, none): flat		Slope:						
	gion : Interior Alaska Mountains	l at ·	- · 62.78754055						
		40							
	ap Unit Name:		0 V	● No ○	NWI classification: Upland				
Are \	matic/hydrologic conditions on the site typical for this /egetation \Box , Soil \Box , or Hydrology \Box /egetation \Box , Soil \Box , or Hydrology \Box	significant	r? res tly disturbed? problematic?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)				
SUM	MARY OF FINDINGS - Attach site map she								
	Hydrophytic Vegetation Present? Yes No	\bigcirc							
	Hydric Soil Present? Yes ○ No	the Sam	ne Sampled Area						
	Wetland Hydrology Present? Yes O No		w	within a Wetland? Yes ○ No ●					
Rem	7								
	ETATION - Use scientific names of plants.	List all sp Absolute % Cove	Dominant	plot. Indicator	Dominance Test worksheet: Number of Dominant Species				
1.	e stratum_	0			That are OBL, FACW, or FAC: (A)				
2.			- 🗒		Total Number of Dominant Species Across All Strata: 2 (B)				
3.			-						
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cove	er: <u>0</u>	-		Total % Cover of: Multiply by:				
Sap	oling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species $0 \times 1 = 0$				
1.	Betula nana	60	✓	FAC	FACW Species 6 x 2 = 12				
2.	Spiraea stevenii		- 🖺	FACU	FAC Species 103 x 3 = 309				
3.	Rhododendron tomentosum	_ <u> </u>	-	FACW	FACU Species 6 x 4 = 24				
4.	Vaccinium uliginosum		- <u>~</u>	FAC	UPL Species 0 x 5 = 0				
5.	Vaccinium vitis-idaea	8		FAC	Column Totals: 115 (A) 345 (B)				
6.	Salix richardsonii	1		FACW					
7.	Empetrum nigrum	5		FAC	Prevalence Index = B/A = 3.000				
8.	Linnaea borealis	1		FACU	Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
Hei	Total Cover: 50% of Total Cover:	er: <u>115</u> 57.5 20		r: <u>23</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.		0			Problematic Hydrophytic Vegetation ¹ (Explain)				
2.					¹ Indicators of hydric soil and wetland hydrology must				
3.		0	- 📙		be present, unless disturbed or problematic.				
			-		Plot size (radius, or length x width)				
		•	-		% Cover of Wetland Bryophytes				
		•	-		(Where applicable)				
			- 📙		% Bare Ground				
			-		Total Cover of Bryophytes				
			- 📙						
10.	Total Cove	_			Hydrophytic Vegetation				
			_	·: 0	Present? Yes • No				
	50% of Total Cover:	0 207	6 Ul TULAI CUVEI	0					

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SOIL Sampling Point: SW13_T103_01

		the depth n	eeded to doc	ument the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3			100%					Fibric Organics			
3-5	7.5YR	5/2	100%					Silt	tephra		
								Sand			
5-9	2.5YR	2.5/1	100%					Sanu	angular gravels-cobbles (to 4in)		
					- ——						
								-			
¹Type: C=Con	ncentration. D=	-Depletion	ı. RM=Redu	uced Matrix ² Location				annel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric Se	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA	4)*		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	edon (A2)			Alaska Alpine s	-	-	_	Underlying Layer			
Hydrogen :	Sulfide (A4)			Alaska Redox V	Nith 2.5Y H	lue	L	Other (Explain in Remark	(S)		
☐ Thick Dark	Surface (A12))		3 O ve indicator of	The described	··· static	mulm	1 - 41 - 44 - 11 - 4 mothered h			
Alaska Gle				and an appropriat	hydropnyı te landscar	ic vegetation in	on, one prin must be pre	mary indicator of wetland hesent	lydrology,		
Alaska Red						•	•				
Alaska Gley	yed Pores (A15	5)		⁴ Give details of co	olor chang	e in Kellidir	KS				
Restrictive Laye	er (if present):							_	\sim		
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydr	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one i	s sufficien	ıt)					Water Stained Leaves (B9)			
Surface W	ater (A1)			Inundation V	isible on A	erial Image	ery (B7)		Patterns (B10)		
	er Table (A2)			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	s (B15)				of Reduced Iron (C4)		
Water Mar					Hydrogen Sulfide Odor (C1)				sits (C5)		
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
Drift Depo				Other (Explai	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	. ,							_	graphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutra	al Test (D5)		
Field Observa		Voc (O No ●	Donth (inche	-A:						
Surface Water				-1 (.s):						
Water Table P		Yes 🤇	○ No •	Depth (inche	:s):		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	:s):						
Describe Record	ded Data (stre	am gauge	, monitor w	vell, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Remarks:											
no hydrology in	dicators obser	have									
110 Hydrology	luicatora obaci	veu									

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