WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 11-Jul-13				
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T139_12				
	gator(s): WAD, BAB	Iside, terrace, hummocks etc.): Bench							
	relief (concave, convex, none): concave		Slope:		2 ° Elevation: 410				
	gion : Southcentral Alaska	l at :	- · —						
		Lat	02.0100323						
	p Unit Name:		- 1/	s • No O	NWI classification: PFO4B				
Are \	matic/hydrologic conditions on the site typical for this for egetation , Soil , or Hydrology , egetation , Soil , or Hydrology	significan naturally	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes No			- 4h - C	valed Avec				
	Hydric Soil Present? Yes ● No	\supset		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No)	V	vitnin a w	retiand? Tes © NO C				
	arks: black spruce forest in a trough parallel to peatlants. LETATION -Use scientific names of plants. L	•		e plot.	Dominance Test worksheet:				
_	Class	Absolut % Cove		Indicator Status	Number of Dominant Species				
1.	e Stratum Picea mariana	40		FACW	That are OBL, FACW, or FAC: 4 (A)				
2.			-	TACV	Total Number of Dominant				
3.					Species Across All Strata: 5 (B)				
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)				
5.			-						
	Total Cove		_		Prevalence Index worksheet: Total % Cover of: Multiply by:				
San	ling/Shrub Stratum 50% of Total Cover:		– % of Total Cove	er: 8	001.0				
			_						
	Vaccinium uliginosum			FAC					
2.	Picea mariana			FACU	FAC Species 35 x 3 = 105 FACU Species 10 x 4 = 40				
3. 4.	Menziesia ferruginea			FACU FAC	UPL Species $0 \times 5 = 0$				
5.	Rhododendron groenlandicum Vaccinium vitis-idaea	- - 5	- H	FAC					
6.	Betula nana		- П	FAC	Column Totals: <u>128</u> (A) <u>306</u> (B)				
7.	Empetrum nigrum	5	- <u> </u>	FAC	Prevalence Index = B/A = 2.391				
	Andromeda polifolia		- <u>П</u>	FACW	Hydrophytic Vegetation Indicators:				
9.	Tarata pamana				Dominance Test is > 50%				
10.				FACW	✓ Prevalence Index is ≤3.0				
	Total Cove b Stratum 50% of Total Cover:		% of Total Cover: 11.6		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Rubus chamaemorus	25	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Eriophorum angustifolium			OBL	¹ Indicators of hydric soil and wetland hydrology must				
3.					be present, unless disturbed or problematic.				
					Plot size (radius, or length x width)				
		0			% Cover of Wetland Bryophytes				
			- =		(Where applicable)				
			- =		% Bare Ground				
			-		Total Cover of Bryophytes				
			-						
1 10		0	_		Hydrophytic				
10.		r: 30	_		Vegetation				
10.	Total Cove 50% of Total Cover:		% of Total Cove	er: 6	Present? Yes No				

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SOIL Sampling Point: SW13_T139_12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)												
Depth		latrix	— —		dox Featu							
(inches)	Color (mois	st)		Color (moist)	_%_	Type ¹	_Loc_2	Texture	Remarks			
0-6			100					Fibric Organics				
6-12			100					Hemic Organics				
			— —									
¹Type: C=Co	ncentration. D=I	Depletion. F	Reduced	d Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	c Hydric S	oils:					
Histosol o	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without Hu	ue 5Y or Redder			
l —	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer								
	Sulfide (A4)			Alaska Redox \	With 2.5Y I	Hue		Other (Explain in Remark	s)			
	k Surface (A12)											
	eyed (A13)			³ One indicator of and an appropriate				nary indicator of wetland h	ydrology,			
Alaska Red				апи антариорна	(e idilusca _k	e position i	Must be pre	eseni				
	eyed Pores (A15))		⁴ Give details of o	olor change	e in Remark	(S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present?	? Yes 💿 No 🔾			
Depth (incl	nes):											
HYDROLO	GY								_			
	rology Indicat	ors:						Secondary Indic	cators (two or more are required)			
-	ators (any one is								ned Leaves (B9)			
☐ Surface V	Vater (A1)			Inundation V	√isible on A	erial Image	ery (B7)	☐ Drainage P	atterns (B10)			
✓ High Wat	er Table (A2)			Sparsely Veg		_		Oxidized RI	nizospheres along Living Roots (C3)			
✓ Saturation	n (A3)			Marl Deposit				Presence o	f Reduced Iron (C4)			
☐ Water Ma	ırks (B1)			Hydrogen Su	ulfide Odor	(C1)		Salt Depos	ts (C5)			
Sediment	Deposits (B2)			Dry-Season \	Water Tabl	ie (C2)		Stunted or	Stressed Plants (D1)			
Drift Depo	osits (B3)			Other (Expla	in in Rema	ırks)		Geomorphi	c Position (D2)			
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)			
Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)			
Surface S	ioil Cracks (B6)							✓ FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Wate	r Present?	Yes O		Depth (inche	es):							
Water Table F	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 4		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾			
Saturation Pre		Yes	No O	Depth (inche	es). 3							
(includes capi						action) if av	ailahlar					
Describe Recor	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:												

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