WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project	Bc	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point:SW13_T114_04		
Investig	ator(s): WAD, BAB	L	andform (hill	side, terrac	e, hummocks etc.): Hillside		
Local re	elief (concave, convex, none): flat		Slope:	%/ 3.4	e Elevation: 512		
Subrea	ion : Interior Alaska Mountains	Lat 6	2.780340074	.7	Long.: -148.016109109 Datum: NAD83		
-	p Unit Name:		2.700010071		NWI classification: PFO4B		
	-		Vaa	• No ()			
	natic/hydrologic conditions on the site typical for this til	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ◯		
		significantly					
Are V	egetation 🗋 , Soil 🗋 , or Hydrology 🔲 r	naturally pro	blematic?	(If nee	eded, explain any answers in Remarks.)		
SUMN	IARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes $ullet$ No $igcar{}$)					
	Hydric Soil Present? Yes ● No C	the Sam	pled Area				
	Wetland Hydrology Present? Yes		wi	thin a W	/etland? Yes $lacksquare$ No $igodol $		
	rks: open black spruce forest at edge of upland bench						
	it is the second s						
	7471011						
VEGE	TATION - Use scientific names of plants. Li	st all spec	cies in the	plot.			
		Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species		
	Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:4(A)		
	Picea mariana	45		FACW	Total Number of Dominant		
2.		0			Species Across All Strata: (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC:(A/B)		
5.		0			Prevalence Index worksheet:		
			(Total % Cover of: Multiply by:		
Sap	ing/Shrub Stratum 50% of Total Cover: 2	2 <u>2.5</u> 20% c	of Total Cover:	9	OBL Species x 1 =		
1.	Vaccinium uliginosum	15	\checkmark	FAC	FACW Species <u>45</u> x 2 = <u>90</u>		
2.	Vaccinium vitis-idaea	10	\checkmark	FAC	FAC Species <u>92.1</u> x 3 = <u>276.3</u>		
3.	Rosa acicularis	5		FACU	FACU Species <u>7.1</u> x 4 = <u>28.4</u>		
4.	Betula nana	1		FAC	UPL Species x 5 =		
5.	Empetrum nigrum	5		FAC	Column Totals: <u>146.2</u> (A) <u>396.7</u> (B)		
6.		0			Prevalence Index = B/A =		
7.		0					
8.		0			Hydrophytic Vegetation Indicators:		
		0			Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
Herl	Total Cover: 		of Total Cover	: 7.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Moneses uniflora	0.1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Mertensia paniculata	2		FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Equisetum sylvaticum	55	\checkmark	FAC	be present, unless disturbed or problematic.		
4.	Calamagrostis canadensis	1		FAC	Plot size (radius, or length x width) 10m		
5.	Rubus pedatus	0.1		FAC	% Cover of Wetland Bryophytes		
6.	Equisetum arvense	5		FAC	(Where applicable)		
7.	Carex vaginata	2		OBL	% Bare Ground		
8.		0			Total Cover of Bryophytes 45		
9.							
10.		0			Hydrophytic		
	Total Cover:		(=		Vegetation Present? Yes • No O		
	50% of Total Cover:	<u>32.6</u> 20% c	of Total Cover:	13.04	Present?Yes		
Rema	arks:						

Profile Descripti Depth	le Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) enth Matrix Redox Features				ators)	_			
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100					Fibric Organics	
2-5			100					Hemic Organics	-
5-8			100		-			Sapric Organics	-
8-10	10YR	3/2	100					Silt	sapric layer collapses into water
								<u></u>	
Type: C=Cor	centration. D=	Depletion	. RM=Reduc	ed Matrix ² Location				annel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr		4	oils:	-	
	Histel (A1)			Alaska Color Ch				Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
✓ Histic Epip				Alaska Alpine s	•	,		Other (Explain in Remar	
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	lue			(5)
	Surface (A12)			³ One indicator of	hydrophvi	tic vegetatio	n, one prir	mary indicator of wetland I	nydrology,
Alaska Gle				and an appropriat					/****5//
Alaska Rec	yed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	S		
		<i>')</i>							
Restrictive Laye								Hydric Soil Present	? Yes 🖲 No 🔿
Type: _{seas} Depth (inch								Hydric Soli Present	?? tes ⊕ no ⊖
Remarks:	103). 13								
HYDROLO	GY								
Wetland Hydi	rology Indica	tors:						Secondary Ind	icators (two or more are required)
Primary Indica	tors (any one i	s sufficien	t)					Water Sta	ined Leaves (B9)
Surface W	/ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	Drainage	Patterns (B10)
✓ High Wate	()			Sparsely Veg	etated Cor	ncave Surfac	e (B8)		Rhizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposits	. ,			_	of Reduced Iron (C4)
Water Mai				Hydrogen Su				Salt Depos	
_	Deposits (B2)			Dry-Season V				_	r Stressed Plants (D1)
	or Crust (B4)			Other (Explai	n in Rema	irks)			ic Position (D2) quitard (D3)
									graphic Relief (D4)
	oil Cracks (B6)							FAC-neutr	
Field Observa	, ,								
Surface Water		Yes 🤇	No 🖲	Depth (inche	s):				
Water Table P	Present?	Yes 🤇	• No 🔿	Depth (inche			Wetla	nd Hydrology Preser	nt? Yes 🖲 No 🔾
Saturation Pre (includes capil	esent?		No	Depth (inche				,	
Describe Record	ded Data (stre	am gauge	, monitor we	ell, aerial photos, prev	ious inspe	ection) if ava	ilable:		
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Remarks:									