WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T178_06
	gator(s): BAB		Landform (hil	side, terrac	e, hummocks etc.): Bench
Local	relief (concave, convex, none): concave		Slope:		B ° Elevation: 984
Subre	gion : Interior Alaska Mountains	lat: (33.05145192		Long.: -148.32109213 Datum: NAD83
			33.03 143 132	12	
	ap Unit Name:			No ○	NWI classification: PSS1/EM1B
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sh	significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Iorded, explain any answers in Remarks.) Iorded, explain features, etc.
	Hydrophytic Vegetation Present? Yes ● No	0			·
	Hydric Soil Present? Yes ● No		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes ● No	_	w	ithin a W	etland? Yes ● No ○
Rem	arks: small [12 inches wide] stream running through		1		
	ETATION - Use scientific names of plants.	List all spe Absolute % Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:5(A)
2.					Total Number of Dominant Species Across All Strata: 5 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cov	er:			Total % Cover of: Multiply by:
Saj	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 28.1 x 1 = 28.1
1	Salix pulchra	4		FACW	FACW Species 5.2 x 2 = 10.4
	Oali aalia lata			FAC	FAC Species 15 x 3 = 45
3.	Andromeda polifolia (IAM)		<u> </u>	OBL	FACU Species 0 x 4 = 0
4.	Vaccinium uliginosum		✓	FAC	UPL Species 0 x 5 = 0
5.					Column Totals: <u>48.3</u> (A) <u>83.5</u> (B)
6.		_			
7.		0			Prevalence Index = B/A = 1.729
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
He	Total Cover: 50% of Total Cover:		of Total Cove	: 5.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Eriophorum angustifolium	5	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex rotundata		✓	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex aquatilis		~	OBL	be present, unless disturbed or problematic.
4.	Eriophorum vaginatum			FACW	Plot size (radius, or length x width)
5.	Juncus castaneus			FACW	% Cover of Wetland Bryophytes
6.	Juncus triglumis			FACW	(Where applicable)
7.	Carex tenuiflora	_		OBL	% Bare Ground10
8.					Total Cover of Bryophytes
10.	Total Cov				Hydrophytic Vegetation
1			of Total Cover	4.26	Present? Yes No
	50% of Total Cover:	10.65 20%	or rotal cover		

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SOIL Sampling Point: SW13_T178_06

Depth —	Matri		ocument the indicator or o	onfirm the absenedox Features				
, i ,	Color (moist)	%	Color (moist)	%	Type ¹ Lo	oc_2	Texture	Remarks
0-1		100					Fibric Organics	
1-8		100					Hemic Organics	w/lots of roots. a 1-3 inch layer of sand.
8-20	5Y 4/1	100					Coarse Sand	w ang gravel. and undecomposed roots and
								-
								-
								. ————
								-
¹ Type: C=Concent	ration. D=Deple	tion. RM=Re	duced Matrix ² Location			t Chai	nnel. M=Matrix	
Hydric Soil Indica	ators:		Indicators for P	4	ydric Soils: ³			
Histosol or Hist	el (A1)		Alaska Color (Change (TA4)			Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon	(A2)		Alaska Alpine				Underlying Layer	
✓ Hydrogen Sulfice	de (A4)		☐ Alaska Redox	With 2.5Y Hue	!	Ш	Other (Explain in Remark	(S)
Thick Dark Surf	. ,		3 One indicator o	f hydronhytic y	regetation one	e nrim	ary indicator of wetland h	aydrology
Alaska Gleyed (-		and an appropria					rydi ology,
Alaska Redox (,		4 Give details of	color change ir	n Remarks			
☐ Alaska Gleyed F	. ,							
Restrictive Layer (if	present):							? Yes • No O
Type: Depth (inches):							Hydric Soil Present	? Yes ● No O
Remarks:								
HYDROLOGY								
Wetland Hydrolog	y Indicators:						_Secondary Indi	cators (two or more are required)
H	•	cient)						cators (two or more are required) ned Leaves (B9)
Wetland Hydrolog Primary Indicators Surface Water	(any one is suffi (A1)	cient)	☐ Inundation	Visible on Aeria	al Imagery (B7	')	Water Stai	
Wetland Hydrolog Primary Indicators ☐ Surface Water ✓ High Water Ta	(any one is suffi (A1) ble (A2)	cient)		Visible on Aeria getated Conca		-	Water Stai	ned Leaves (B9)
Primary Indicators Surface Water High Water Ta Saturation (A3)	(any one is suffi (A1) ble (A2)	cient)	Sparsely Ve	getated Concarts (B15)	ve Surface (B8	-	Water Stai Drainage I Oxidized R Presence of	ned Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4)
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