WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Aug-13						
Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T162_10											
	gator(s): WAD, RWM		Landform (hillside, terrace, hummocks etc.): terrace								
Local	relief (concave, convex, none): flat		Slope:	% / 9.5	5 ° Elevation: 131						
Subre	gion : Interior Alaska Mountains	Lat ·	63.1120001078 Long.: -148.093790771 Datum: NAD83								
	p Unit Name:										
	· -		o V	No ○	NWI classification: PEM1E						
Are \		significantl naturally p	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes No C)									
	Hydric Soil Present? Yes ● No C)	Is the Sampled Area								
	Wetland Hydrology Present? Yes ● No ○		within a Wetland? Yes ● No ○								
Rem	arks: Wet sedge meadow at base of gelifluction lobe.										
	ETATION - Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:						
1.	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)						
2.					Total Number of Dominant						
3.					Species Across All Strata: 2 (B)						
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.											
0.	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sar	ling/Shrub Stratum 50% of Total Cover:		of Total Cover	: 0	0.00						
	Salix pulchra			FACW	FACW Species 6 x 2 = 12 FAC Species 1 x 3 = 3						
	Salix reticulata			FAC	FACU Species 1 x 4 = 4						
3. 4.	Salix arctica			FACU UPL	UPL Species 1 x 5 = 5						
	Dryas ajanensis Salix polaris	-		FACW							
6.	· ·	•			Column Totals: 59 (A) 74 (B)						
7.		0			Prevalence Index = B/A = 1.254						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
					✓ Prevalence Index is ≤3.0						
	Total Cover b Stratum 50% of Total Cover:		% of Total Cover: 1.8		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Carex aquatilis	45	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Eriophorum angustifolium	5		OBL	¹ Indicators of hydric soil and wetland hydrology must						
3.					be present, unless disturbed or problematic.						
					Plot size (radius, or length x width) 10m						
		0			% Cover of Wetland Bryophytes						
6.					(Where applicable)						
					% Bare Ground						
					Total Cover of Bryophytes30						
10.					Hydrophytic						
	Total Covers				Vegetation Present? Yes ● No ○						
	50% of Total Cover:	25 200/	of Total Cover	: 10	Present? Tes © NO C						

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SOIL Sampling Point: SW13_T162_10

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)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks	
0-8			100					Fibric Organics	fine sand mixed in.	
					-					
					-					
¹Type: C=Cor	ncentration. D=I	Depletion. F	Reduced	Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	indicators:		I	ndicators for Pr	roblemati	c Hydric S	oils: ³			
Histosol o	r Histel (A1)			Alaska Color Cl	hange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer						
✓ Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y F	Hue		Other (Explain in Remark	rs)	
☐ Thick Darl	k Surface (A12)									
Alaska Gle	eyed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,	
Alaska Red						•		eseni		
Alaska Gle	eyed Pores (A15))		⁴ Give details of co	olor change	e in Remark	KS			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 💿 No 🔾	
Depth (inch	nes):									
	, variable depth,									
HYDROLO	GY									
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)	
Surface W	Vater (A1)			☐ Inundation V	/isible on A	erial Image	ry (B7)	Drainage F	atterns (B10)	
✓ High Wate	✓ High Water Table (A2) ☐ Sparsely Vegetated Concave Surf						ce (B8)		hizospheres along Living Roots (C3)	
✓ Saturation	` ,			Marl Deposits	. ,				f Reduced Iron (C4)	
Water Ma				✓ Hydrogen Su				Salt Depos		
	Deposits (B2)			☐ Dry-Season \		` '			Stressed Plants (D1)	
☐ Drift Depo	` ,			Other (Explai	in in Rema	rks)		_	ic Position (D2)	
	or Crust (B4)								uitard (D3)	
☐ Iron Depo	` ,								raphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa		Yes 〇	NI ₂	Darth (inche						
Surface Water				Depth (inche	,				(2) (
Water Table F		Yes		Depth (inche	es): 2		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pre (includes capi		Yes •	No O	Depth (inche	es): 0					
Describe Recor	ded Data (strea	m gauge, n	nonitor well, a	aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										

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