WETLAND DETERMINATION DATA FORM - Alaska Region

TOJCC	ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 02-Aug-13			
Applic	cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T162_05			
	tigator(s): WAD, RWM		Landform (hillside, terrace, hummocks etc.): terrace					
Local	relief (concave, convex, none): concave		Slope:					
Subre	egion : Interior Alaska Mountains	l at ·	63.121634840					
			03.121034040		•			
	lap Unit Name:		0 V	No ○	NWI classification: PEM1E			
Are '		significantly	/ disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)			
			.pg pot	1000110110	s, transcoto, important routal co, etc.			
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	pled Area						
	yane comcocini		within a Wetland? Yes No					
Dom	Wetland Hydrology Present? Yes ● No Charks:)						
	ETATION - Use scientific names of plants. Li	st all spe	cies in the Dominant Species?		Dominance Test worksheet: Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 3 (A)			
2.					Total Number of Dominant			
3.					Species Across All Strata:3(B)			
4.			П		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:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 42 x 1 = 42			
	·		~	FACIAL	FACW Species 13 x 2 = 26			
	Salix polaris Salix pulchra		▼	FACW	FAC Species 1.1 x 3 = 3.300			
3.	•	-		FACW	FACU Species 4 x 4 = 16			
4.					UPL Species 0 x 5 = 0			
5.			П					
6.			$\overline{\Box}$	-	Column Totals: <u>60.1</u> (A) <u>87.30</u> (B)			
7.		0			Prevalence Index = B/A = 1.453			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
					Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
He	Total Cover: 50% of Total Cover:		of Total Cover	: 2.6				
<u>He</u>	orb Stratum 50% of Total Cover:		of Total Cover	: <u>2.6</u> OBL				
	brb Stratum 50% of Total Cover:	6.5 20%	of Total Cover		Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must			
1.	Eriophorum angustifolium	6.5 20% 5 35	of Total Cover	OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)			
1. 2.	Eriophorum angustifolium Carex aquatilis	6.5 20% 5 35 2	6 of Total Cover	OBL OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. 2. 3.	Eriophorum angustifolium Carex aquatilis Luzula arcuata	6.5 20% 5 35 2 1 0.1	s of Total Cover	OBL OBL FACU FAC FAC	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)			
1. 2. 3. 4.	Eriophorum angustifolium Carex aquatilis Luzula arcuata Micranthes nelsoniana Poa arctica Artemisia norvegica	6.5 20% 5 35 2 1 0.1 2	s of Total Cover	OBL OBL FACU FAC FAC FAC	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. 2. 3. 4. 5. 6. 7.	Eriophorum angustifolium Carex aquatilis Luzula arcuata Micranthes nelsoniana Poa arctica Artemisia norvegica Carex lachenalii	6.5 20% 5 35 2 1 0.1 2 2	s of Total Cover	OBL OBL FACU FAC FAC	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes			
1. 2. 3. 4. 5. 6. 7. 8.	Eriophorum angustifolium Carex aquatilis Luzula arcuata Micranthes nelsoniana Poa arctica Artemisia norvegica Carex lachenalii	6.5 20% 5 35 2 1 0.1 2 2 0	s of Total Cover	OBL OBL FACU FAC FAC FAC	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable)			
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1. 2. 3. 4. 5. 6. 7. 8.	Eriophorum angustifolium Carex aquatilis Luzula arcuata Micranthes nelsoniana Poa arctica Artemisia norvegica Carex lachenalii	6.5 20% 5 35 2 1 0.1 2 2 0 0 0 47.1		OBL OBL FACU FAC FAC OBL	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must 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			

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SOIL Sampling Point: SW13_T162_05

		the depth ne	eded to docum	nent the indicator or co	onfirm the ab		cators)			
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	_ Loc _2	Texture	Remarks	
0-1			100					Fibric Organics		
1-3	2.5Y	4/4	100					Sapric Organics	feels like organic but not dark color	
3-13	2.5Y	2.5/1	100					Coarse Sand		
					-			• • • • • • • • • • • • • • • • • • • •		
					-					
¹Type: C=Cor	ncentration. D=		. RM=Reduce	ed Matrix ² Location		_		annel. M=Matrix		
Hydric Soil I				Indicators for Pr		4	oils:	7		
	r Histel (A1)			Alaska Color Change (TA4)				Alaska Gleyed Without Hi Underlying Layer	ue 5Y or Redder	
	pedon (A2)			Alaska Alpine swales (TA5)				, , , , , , , , , , , , , , , , , , ,		
_ ' '	Sulfide (A4)			☐ Alaska Redox \	Nith 2.5Y i	due	✓	Uther (Explain in Remain	(5)	
	k Surface (A12)	1		³ One indicator of	hydrophy	tic vegetatic	on, one prin	mary indicator of wetland h	ıvdrology,	
Alaska Gle				and an appropriat					,,	
Alaska Red	dox (A14) eyed Pores (A15	5)		4 Give details of co	olor chang	e in Remark	ks			
Restrictive Laye	er (if present):									
Type: seas	sonal frost							Hydric Soil Present	? Yes • No O	
Depth (inch	nes): 31									
HYDROLO										
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	itors (any one i	s sufficient	t)					Water Stair	ned Leaves (B9)	
Surface W	, ,			Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)		
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)	
	✓ Saturation (A3)				s (B15)				of Reduced Iron (C4)	
Water Ma				☐ Hydrogen Su				Salt Depos		
Sediment Deposits (B2) Drift Deposits (B3)				Dry-Season \					Stressed Plants (D1) ic Position (D2)	
= '	or Crust (B4)			Other (Explain	IN IN Kellia	irks)		✓ Shallow Aquitard (D3)		
Iron Depo	` ,								graphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra	• • • • •	
Field Observa							\Box			
Surface Water	r Present?	Yes C	No 💿	Depth (inche	es):					
Water Table P	Present?	Yes 🤄	No O	Depth (inche	•		Wetla	nd Hydrology Presen	it? Yes ● No ○	
Saturation Pre			No O		•					
(includes capi	llary fringe)			Depth (inche		ection) if av	railahlar			
Describe Recor	aea Data (Su e	alli gauge,	UIOLIITOI MEI	l, aeriai pilotos, pre	VIOUS II ISPE	CUOII) II ave	aliduie.			
Remarks:										

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