WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 10-Jul-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T132_01			
	igator(s): WAD, BAB		Landform (hillside, terrace, hummocks etc.): Swale					
	relief (concave, convex, none): flat		Slope:	% / 0.7	-			
	gion : Interior Alaska Mountains	l at ·	62.953761479					
	ap Unit Name:		0 V	■ N= ○	NWI classification: PEM1E			
	imatic/hydrologic conditions on the site typical for this tinvegetation \Box , Soil \Box , or Hydrology \Box s	•	? Yes y disturbed?	● No ○ Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
Are \	Vegetation \square , Soil \square , or Hydrology \square r	naturally pi	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C)	_					
	Hydric Soil Present? Yes ● No ○)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No)	Wi	within a Wetland? Yes ● No ○				
Rem	arks: wet meadow within low willow hillside.							
VEGI	ETATION -Use scientific names of plants. Li	•		•	Dominance Test worksheet:			
Tre	ee Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 4 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sap	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 54 x 1 = 54			
1	Saliv fuscoscopo	10	✓	FACW	FACW Species 42 x 2 = 84			
	Salix fuscescens			FACW	FAC Species <u>5</u> x 3 = <u>15</u>			
	Salix pulchra Salix reticulata			FAC	FACU Species 0 x 4 = 0			
				FAC	UPL Species 0 x 5 = 0			
5.	Vaccinium uliginosum			TAC				
6.		•			Column Totals: <u>101</u> (A) <u>153</u> (B)			
7.		0			Prevalence Index = B/A = 1.515			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
	Total Cover: 50% of Total Cover:		6 of Total Cover	: 3.4	 ✓ Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 			
He	Total Cover: rb Stratum 50% of Total Cover:	8.5 20%			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
<u>He</u>	Total Cover: 50% of Total Cover: Carex aquatilis	8.5 20% 45	6 of Total Cover	OBL	 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) 			
1. 2.	Total Cover: rb Stratum Carex aquatilis Comarum palustre	8.5 20% 45 5			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1. 2. 3.	Total Cover: 50% of Total Cover: Carex aquatilis Comarum palustre Carex vaginata	8.5 20% 45 5 4		OBL OBL	 ☐ Morphological Adaptations ¹ (Provide supporting data in 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. 			
1. 2. 3. 4.	Total Cover: rb Stratum Carex aquatilis Comarum palustre Carex vaginata Carex stylosa	8.5 20% 45 5 4 30		OBL OBL	 ☐ Morphological Adaptations ¹ (Provide supporting data in 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) 			
1. 2. 3. 4. 5.	Total Cover: rb Stratum Carex aquatilis Comarum palustre Carex vaginata Carex stylosa	8.5 20% 45 5 4 30 0		OBL OBL				
1. 2. 3. 4. 5. 6.	Total Cover: rb Stratum Carex aquatilis Comarum palustre Carex vaginata Carex stylosa	8.5 20% 45 5 4 30 0		OBL OBL	 ☐ Morphological Adaptations ¹ (Provide supporting data in 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) 			
1. 2. 3. 4. 5. 6. 7.	Total Cover: rb Stratum Carex aquatilis Comarum palustre Carex vaginata Carex stylosa	8.5 20% 45 5 4 30 0 0		OBL OBL	□ Morphological Adaptations ¹ (Provide supporting data in 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) □ 10m ○ Cover of Wetland Bryophytes (Where applicable)			
1. 2. 3. 4. 5. 6. 7. 8.	Total Cover: rb Stratum Carex aquatilis Comarum palustre Carex vaginata Carex stylosa	8.5 20% 45 5 4 30 0 0 0		OBL OBL	□ Morphological Adaptations ¹ (Provide supporting data in 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) 10m 10m (Where applicable) % Bare Ground 10m			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: rb Stratum Carex aquatilis Comarum palustre Carex vaginata Carex stylosa	8.5 20% 45 5 4 30 0 0 0		OBL OBL	□ Morphological Adaptations ¹ (Provide supporting data in 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) 10m 10m (Where applicable) % Bare Ground 10m			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: 50% of Total Cover: 50% of Total Cover:	8.5 209 45 5 4 30 0 0 0 0 0 84		OBL OBL OBL FACW	Morphological Adaptations ¹ (Provide supporting data in 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 5			

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

		ne depth nee atrix	ded to docum	cument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-9	COIOI (IIIOI		100	Color (moist)		1700	200	Fibric Organics			
¹Type: C=Cor	ncentration. D=I	Depletion. I	RM=Reduce	ed Matrix ² Location	: PL=Por	e Lining. RC	=Root Char	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	oblematio	: Hydric Sc	oils: ³				
	r Histel (A1)			_ 4 _				Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	` '			Alaska Alpine s	wales (TA	5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox W	ith 2.5Y F	lue		Other (Explain in Remarks)			
_ ' '	Surface (A12)										
Alaska Gle	eyed (A13)			³ One indicator of and an appropriate				nary indicator of wetland h	ydrology,		
Alaska Red				ани ан арргорнай	e iaiiuscap	e position i	nust be pre	sen			
Alaska Gle	eyed Pores (A15)	1		⁴ Give details of co	olor change	e in Remark	S				
Restrictive Laye	er (if present):										
Type: seas	sonal frost							Hydric Soil Present	? Yes ⊙ No O		
Depth (inch	nes): 9										
Remarks:											
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
Surface W	Vater (A1)			Inundation Vi	sible on A	erial Imager	y (B7)				
✓ High Wate	. ,			Sparsely Vege	etated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation	` '			Marl Deposits	. ,				f Reduced Iron (C4)		
Water Ma				Hydrogen Sul	fide Odor	(C1)		Salt Depos			
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)		
☐ Drift Depo	` ,			Uther (Explain	n in Rema	rks)			c Position (D2)		
	or Crust (B4)							✓ Shallow Aq			
☐ Iron Depo	` ,								raphic Relief (D4)		
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)		
Field Observa		Yes 〇	Na 📵	5 6							
Surface Water		_		Depth (inche	s): 0						
Water Table F		Yes	No \bigcirc	Depth (inches	s): 2		Wetlan	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capi		Yes	No O	Depth (inches	s): 0						
Describe Recor	ded Data (strea	m gauge, r	nonitor well	, aerial photos, prev	ious inspe	ction) if ava	ilable:				
Remarks:											
ixemaiks.											

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