WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 24-Jun-12			
Applic	ant/Owner: Alaska Energy Authority		Sampling Point: SW12_T17_13					
	igator(s): SLI, LMF		Landform (hill	rm (hillside, terrace, hummocks etc.): Valley bottom				
_ocal	relief (concave, convex, none): undulating		Slope: 3.5 % / 2.0 ° Elevation: 615					
Subre	gion : Southcentral Alaska	Lat.:	62.785679909					
	ap Unit Name:	_		NWI classification: PEM1E				
	imatic/hydrologic conditions on the site typical for this ti	ime of vear	2 Yes	● No ○				
			y disturbed?		Iormal Circumstances" present? Yes No			
		-	roblematic?		eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No No		le	tha Sam	uplad Aras			
	Hydric Soil Present? Yes No)	Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No		WI	within a wetiand?				
Ren	narks: beaver dam at west end of site.		ļi.					
/FO	ETATION							
/EG	ETATION -Use scientific names of plants. L	ist all spe	ecies in the	plot.	1			
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.					Total Number of Dominant			
2.					Species Across All Strata:3 (B)			
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)			
5.								
0.	Total Cover	. 0			Prevalence Index worksheet:			
Sai	pling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:			
			_		OBL Species 3 x1 = 3			
	Betula nana	- 7	✓	FAC	FACW Species 21 x 2 = 42 FAC Species 15 x 3 = 45			
	Vaccinium uliginosum			FAC	FAC Species 15 x 3 = 45 FACU Species 0 x 4 = 0			
3. 4.	Salix reticulata	4		FAC FACW	UPL Species 0 x 5 = 0			
5.	Andromeda polifolia	_		FACW				
6.					Column Totals: <u>39</u> (A) <u>90</u> (B)			
7					Prevalence Index = B/A = 2.308			
7. 8.		0						
7. 8. 9.		0			Hydrophytic Vegetation Indicators:			
8.		0		<u></u>	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
8. 9.		0 0 0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0			
8. 9. 10.		0 0 0 0 0	6 of Total Cover	: <u>3.2</u>	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
8. 9. 10.	Total Cover	0 0 0 0 0 0 16 8 20%	6 of Total Cover	: <u>3.2</u> FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
8. 9. 10. <u>He</u> 1. 2.	Total Cover rb Stratum 50% of Total Cover: _ Eriophorum russeolum Carex magellanica	0 0 0 0 0 16 8 209 20 3	_		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ 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			
8. 9. 10. He 1. 2. 3.	Total Cover rb Stratum 50% of Total Cover: Eriophorum russeolum Carex magellanica	0 0 0 0 16 8 209 20 3 0	_	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
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8. 9. 10. He 1. 2. 3. 4. 5.	Total Cover rb Stratum 50% of Total Cover: Eriophorum russeolum Carex magellanica	0 0 0 0 16 8 209 20 3 0 0	_	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ 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			
8. 9. 10. He 1. 2. 3. 4. 5.	Total Cover rb Stratum 50% of Total Cover: Eriophorum russeolum Carex magellanica	0 0 0 0 16 8 209 20 3 0 0 0	_	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ 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)			
8. 9. 10. He 1. 2. 3. 4. 5. 6. 7.	Total Cover rb Stratum 50% of Total Cover: _ Eriophorum russeolum Carex magellanica	0 0 0 0 16 8 209 20 3 0 0 0	_	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ 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			
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SOIL Sampling Point: SW12_T17_13

	tion: (Describe to the depth needed to d Matrix			locument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
						.,,,,					
							-				
											
									-		
-											
1 Type: C-Cer		Donlotion I	OM-Doducod	Matrix ² Location	. DI – Dor	- Lining DC		nnol M-Matrix			
		Depletion. I						illei. M=Matrix			
Hydric Soil Indicators:]	indicators for Pr		4	oils:	The state of the s			
Histosol or Histel (A1)			L	Alaska Color Ch		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip			L	Alaska Alpine s	•	,	✓		(c)		
	Sulfide (A4)		L	Alaska Redox V	Vith 2.5Y F	lue	V	Other (Explain in Remark	(5)		
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropriat					yul ology,		
Alaska Red	` '			4 Give details of co	olor chang	a in Damark	re				
Alaska Gle	yed Pores (A15)		GIVE details of co	olor change	e iii Neiliai k					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
Remarks:											
no soil pit due t	to standing wat	er intersper	sed with well	-vegetated humm	ocks, assu	me hydric s	oils.				
	_					•					
HYDROLO	CV										
Wetland Hydi		nrs:						Secondary India	cators (two or more are required)		
-	tors (any one is								ned Leaves (B9)		
✓ Surface W		,		Inundation V	isihle on A	erial Image	rv (B7)		Patterns (B10)		
✓ High Wate	. ,			Sparsely Veg		_			hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits		icave Sarrae	JC (DO)	Presence of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su	. ,	(C1)		Salt Depos	` '		
Sediment Deposits (B2)				Dry-Season V					Stressed Plants (D1)		
Drift Deposits (B3)				Other (Explai					ic Position (D2)		
Algal Mat or Crust (B4))			juitard (D3)		
☐ Iron Deposits (B5)									graphic Relief (D4)		
Surface Soil Cracks (B6)								FAC-neutral Test (D5)			
Field Observa											
Surface Water	r Present?	Yes 💿	No \bigcirc	Depth (inche	s): 6						
Water Table P	resent?	Yes	No O	Depth (inche	c). 0		Wetlan	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre				, ,	•				- 100 - 110 -		
(includes capi		Yes	No \bigcirc	Depth (inche	s): 0						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, prev	ious inspe	ction) if ava	ailable:				
many pools of s	tanding water i	nterspersed	w well-vege	tated hummocks.	shallow soi	ls over cobb	oles-boulder	rs. old, well vegetated bea	ever dam at west end of site, incised		
Remarks:											

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