WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 26-Jun-12			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T20_14			
	igator(s): JGK		Landform (hill	(hillside, terrace, hummocks etc.): Gulch or Gully				
Local	relief (concave, convex, none): hummocky		Slope:		B ° Elevation: 559			
	gion : Southcentral Alaska	lat: 6	· 62.724808191					
	ap Unit Name:		JZ.7 Z4000 19 1					
			. V	■ N= ○	NWI classification: PSS1E			
	imatic/hydrologic conditions on the site typical for this till Vegetation \Box , Soil \Box , or Hydrology \Box s							
		•	disturbed?		ionnai oii oaniotanooo procont.			
Are v	Vegetation \square , Soil $oldsymbol{arPsi}$, or Hydrology \square r	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C)						
	Hydric Soil Present? Yes ● No ○		e Sampled Area					
	Wetland Hydrology Present? Yes ● No ○	wi	ithin a Wetland? Yes ● No ○					
Rem	arks:							
/FGI	ETATION - Use scientific names of plants. Li	ct all can	cios in tho	nlot				
	ETATION - OSE SCIENTING Harries 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: (A)			
2.					Total Number of Dominant Species Across All Strata: 2 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:	·			Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 5 x 1 = 5			
1	Salix pulchra	75	~	FACW	FACW Species 95 x 2 = 190			
	Manadada Badana an			FAC	FAC Species 7 x 3 = 21			
3.				TAC	FACU Species 0 x 4 = 0			
٥.		Λ						
4								
4. 5.		0			UPL Species 0 x 5 = 0			
5.		0						
5. 6.		0			UPL Species 0 x 5 = 0			
5. 6. 7.		0 0 0			UPL Species $0 \times 5 = 0$ Column Totals: $107 \times 6 = 0$ Prevalence Index = B/A = 2.019			
5. 6. 7. 8.		0 0 0			UPL Species $0 \times 5 = 0$ Column Totals: $107 \times 6 = 0$ Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators:			
5. 6. 7. 8. 9.		0 0 0 0			UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
5. 6. 7. 8. 9.		0 0 0 0 0			UPL Species $0 \times 5 = 0$ Column Totals: $107 \times 6 = 0$ Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0			
5. 6. 7. 8. 9.		0 0 0 0 0 0 0	of Total Cover		UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
5. 6. 7. 8. 9. 10.	Total Cover:	0 0 0 0 0 0 0	of Total Cover	:16	UPL Species $0 \times 5 = 0$ Column Totals: $107 \times 6 = 0$ Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in			
5. 6. 7. 8. 9. 10. He	Total Cover: Solvent Stratum Solvent Stratum Solvent Stratum	0 0 0 0 0 0 0 0 0 0 40 20%			UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0			
5. 6. 7. 8. 9. 10. He	Total Cover: rb Stratum 50% of Total Cover: Calamagrostis stricta	0 0 0 0 0 0 0 0 0 40 20%		FACW	UPL Species $0 \times 5 = 0$ Column Totals: $107 \times 5 = 0$ Prevalence Index = B/A = 2.019 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)			
5. 6. 7. 8. 9. 10. He 1. 2.	Total Cover: rb Stratum 50% of Total Cover: Calamagrostis stricta Comarum palustre Rubus arcticus	0 0 0 0 0 0 0 0 40 20%		FACW	UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 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.			
5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4.	Total Cover: rb Stratum 50% of Total Cover: Calamagrostis stricta Comarum palustre Rubus arcticus	0 0 0 0 0 0 0 80 40 20% 5 20 0		FACW	UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m			
5. 6. 7. 8. 9. 10. He 1. 2. 3. 4. 5.	Total Cover: rb Stratum 50% of Total Cover: Calamagrostis stricta Comarum palustre Rubus arcticus	0 0 0 0 0 0 0 0 80 40 20%		FACW	UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 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.			
5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7.	Total Cover: rb Stratum Calamagrostis stricta Comarum palustre Rubus arcticus	0 0 0 0 0 0 0 0 0 20% 5 2 0 0 0 5 2 0		FACW	UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 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) 10m 0 Cover of Wetland Bryophytes 0			
5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover: rb Stratum Calamagrostis stricta Comarum palustre Rubus arcticus	0 0 0 0 0 0 0 0 0 40 20% 20 5 2 0 0 0		FACW OBL FAC	UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0			
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5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover: rb Stratum 50% of Total Cover: Calamagrostis stricta Comarum palustre Rubus arcticus	0 0 0 0 0 0 0 0 80 20% 5 2 0 0 0 0		FACW OBL FAC	UPL Species 0 x 5 = 0 Column Totals: 107 (A) 216 (B) Prevalence Index = B/A = 2.019 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) 10m % Cover of Wetland Bryophytes 0 (Where applicable) % Bare Ground 0 Total Cover of Bryophytes 5 Hydrophytic			
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SOIL Sampling Point: SW12_T20_14

		ne depth nee	ded to docum	to document the indicator or confirm the absence of indicators) Redox Features						
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
								-		
¹Type: C=Co	ncentration. D=I	Depletion. F	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	Hydric So	oils: ³	_		
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	1)		Alaska Gleyed Without Hue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	V	Other (Explain in Remarks)		
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	ydrology	
Alaska Gle				and an appropriat					ydrology,	
Alaska Re	. ,			4 Give details of co	olor change	e in Remark	S			
	eyed Pores (A15))								
Restrictive Lay	er (if present):									
Type:								Hydric Soil Present	? Yes • No O	
Depth (incl	nes):									
lio son pic dde	to standing water	or ussume	Tryune 30113	due to hydrophytic	vegetation	r unu wedur	ia nyarolog	,		
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	itors (any one is	sufficient)							ned Leaves (B9)	
✓ Surface V	/ater (A1)			☐ Inundation Visible on Aerial Imagery (B7)					atterns (B10)	
	er Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)		
☐ Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)	
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				☐ Salt Depos		
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)	
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)				Other (Explain in Remarks)				_	ic Position (D2) juitard (D3)	
Iron Depo									raphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra		
Field Observa	· · · ·									
Surface Wate		Yes	$_{No}$ \bigcirc	Depth (inche	s): 5					
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	c).		Wetlan	nd Hydrology Presen	t? Yes • No O	
Saturation Pro		_	_	, ,	•			,		
(includes capi		Yes O	No 💿	Depth (inche	s):					
Describe Recor	ded Data (strea	m gauge, n	nonitor wel	l, aerial photos, prev	vious inspe	ction) if ava	ilable:			
Remarks:										

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