## WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 19-Aug-15		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T327_11		
	igator(s): GVF		Landform (hill	side, terrac	ce, hummocks etc.): Swale		
	relief (concave, convex, none): flat		-		) ° Elevation:		
	gion : Cook Inlet Mountains	l at ·		_	Long.: Datum: WGS84		
		Lut					
	ap Unit Name:			<u> </u>	NWI classification: PEM1E		
	matic/hydrologic conditions on the site typical for this t						
			tly disturbed?		tormar or cametanoco procont.		
Are \	√egetation  , Soil  , or Hydrology	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map sho	wing sar	mpling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No	$\overline{}$					
	Hydric Soil Present? Yes ● No C	the Sam	e Sampled Area				
	Wetland Hydrology Present? Yes ● No C		within a Wetland? Yes ● No ○				
Dom	arks:		<u> </u>				
Keiii	ains.						
/FGI	ETATION -Use scientific names of plants. L	ict all ca	ocios in the	nlot			
	ETATION - 03e scientific flames of plants. L	ist all sp	ecies iii tiie	piot.	Dominance Test weeksheet		
l _	<u>.</u>	Absolute			Dominance Test worksheet:  Number of Dominant Species		
1 re	ee Stratum	% Cove	r Species?	Status	That are OBL, FACW, or FAC: 2 (A)		
					Total Number of Dominant		
2. 3.					Species Across All Strata: 2 (B)		
3. 4.		- —			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.							
5.	Total Cover				Prevalence Index worksheet:		
			_	0	Total % Cover of: Multiply by:		
Sap	pling/Shrub Stratum 50% of Total Cover:			0	OBL Species 31 x 1 = 31		
1.			. 🖳		FACW Species 0 x 2 = 0		
2.			. 📙		FAC Species 0 x 3 = 0		
3.					FACU Species 0 x 4 = 0		
4.					UPL Species0 x 5 =0		
5.	-				Column Totals: <u>31</u> (A) <u>31</u> (B)		
6.					Prevalence Index = B/A = 1.000		
7.							
8.			1 1				
					Hydrophytic Vegetation Indicators:		
9.		_			✓ Dominance Test is > 50%		
9. 10.							
10.	Total Cover	r: <u>0</u>	_		<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations (Provide supporting data in</li> </ul>		
10.	Total Cover rb Stratum 50% of Total Cover:	0 20	% of Total Cover		<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</li> </ul>		
10. Her 1.	Total Cover rb Stratum 50% of Total Cover:  Trichophorum caespitosum	0 20 15	% of Total Cover	OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation (Explain)</li> </ul>		
10. Her 1. 2.	Total Cover rb Stratum 50% of Total Cover: Trichophorum caespitosum Eriophorum angustifolium	0 20 0 15	% of Total Cover	OBL OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation (Explain)</li> <li>Indicators of hydric soil and wetland hydrology must</li> </ul>		
10. Her 1. 2. 3.	Total Cover rb Stratum 50% of Total Cover:  Trichophorum caespitosum  Eriophorum angustifolium  Menyanthes trifoliata	0 20 15 9	% of Total Cover	OBL OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation (Explain)</li> </ul>		
10. <b>Her</b> 1. 2. 3. 4.	Total Cover rb Stratum 50% of Total Cover:  Trichophorum caespitosum Eriophorum angustifolium Menyanthes trifoliata Drosera rotundifolia	15 9 3 1	% of Total Cover	OBL OBL OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation (Explain)</li> <li>Indicators of hydric soil and wetland hydrology must</li> </ul>		
10.  Heil 1. 2. 3. 4. 5.	Total Cover 50% of Total Cover:  Trichophorum caespitosum Eriophorum angustifolium Menyanthes trifoliata Drosera rotundifolia Carex limosa	15 9 3 1 1	% of Total Cover	OBL OBL OBL OBL	✓ Dominance Test is > 50%     ✓ Prevalence Index is ≤3.0       Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation (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		
10. Her 1. 2. 3. 4. 5. 6.	Total Cover 50% of Total Cover:  Trichophorum caespitosum  Eriophorum angustifolium  Menyanthes trifoliata  Drosera rotundifolia  Carex limosa  Carex aquatilis	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	% of Total Cover	OBL OBL OBL OBL OBL	✓ Dominance Test is > 50%     ✓ Prevalence Index is ≤3.0       Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation (Explain)      ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)       Sm		
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10.  Head 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover 50% of Total Cover:  Trichophorum caespitosum Eriophorum angustifolium Menyanthes trifoliata Drosera rotundifolia Carex limosa Carex aquatilis Drosera anglica	15 9 3 1 1 1 1 1	% of Total Cover	OBL OBL OBL OBL OBL	✓ Dominance Test is > 50%     ✓ Prevalence Index is ≤3.0       Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation (Explain)      ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)       Sm		
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SOIL Sampling Point: SW15\_T327\_11

		e depth nee <b>atrix</b>	eded to document the indicator or confirm the absence of indicators)  Redox Features								
Depth (inches)	Color (moist	:)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-1								Peat			
1-23				'				Mucky Peat			
									-		
				· · · · · · · · · · · · · · · · · · ·					-		
¹Type: C=Cond	centration. D=D	epletion. I	RM=Reduce	ed Matrix <sup>2</sup> Locatio				nnel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Problematic Hydric Soils:							
✓ Histosol or Histel (A1)				Alaska Color C		-	Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remark	(S)		
	Surface (A12)			3 One indicator of	f hydronhyd	tic vegetatio	n one prin	nary indicator of wetland h	wdrology		
Alaska Gley				and an appropria					rydrology,		
Alaska Red	` '			<sup>4</sup> Give details of o	olor chang	e in Remark	(S				
	ved Pores (A15)										
Restrictive Layer	r (if present):										
Type: Depth (inche	٠٠)،							Hydric Soil Present	? Yes • No O		
Remarks:	cs).										
HYDROLOG	GΥ										
Wetland Hydro	ology Indicato	rs:						Secondary Indi	cators (two or more are required)		
	ors (any one is	sufficient)							ned Leaves (B9)		
✓ Surface Wa	` '			Inundation \		-		_	Patterns (B10)		
✓ High Wate				Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation				Marl Deposit	` '	(04)			of Reduced Iron (C4)		
Water Mar	NS (B1) Deposits (B2)			Hydrogen St				Salt Depos	Stressed Plants (D1)		
Drift Depos				Dry-Season Other (Expla					ic Position (D2)		
	or Crust (B4)				IIII III Keilia	iks)			quitard (D3)		
☐ Iron Depos									graphic Relief (D4)		
_ :	il Cracks (B6)							✓ FAC-neutra			
Field Observa	tions:										
Surface Water	Present?	Yes	No $\bigcirc$	Depth (inche	es): 2						
Water Table Pr	resent?	Yes	No $\bigcirc$	Depth (inch	es): 0		Wetla	nd Hydrology Presen	t? Yes   No		
Saturation Pres	sent?	Yes	No O	Depth (inch	•						
(includes capill											
Describe Record	led Data (strean	n gauge, r	nonitor wel	l, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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