WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/0	City:	Matanusk	xa-Susitna Borough Sampling Date: 05-Aug-12	
Applica	int/Owner: Alaska Energy Authority					Sampling Point: SW12_T34_09	
						ce, hummocks etc.): Swale	
Local r	elief (concave, convex, none): concave		Slope:		% / 2.0	° Elevation: 109	
Subrec	ion : Southcentral Alaska	Lat.:	- 62.89420	03179		Long.: -148.679245659 Datum: NAD83	
-	p Unit Name:		02.00 .2			NWI classification: PEM1E	
	natic/hydrologic conditions on the site typical for this tir	ne of ver	ar?	Yes (• No ()		
			tly disturbe			Iormal Circumstances" present? Yes No ○	
		-	problemati			eded, explain any answers in Remarks.)	
	MARY OF FINDINGS - Attach site map show		mpling p	ooint	locations	s, transects, important features, etc.	
	Hydrophytic Vegetation Present? Yes No			le f	tha Sam	uplad Araa	
Hydric Soil Present? Yes ● No ○				Is the Sampled Area within a Wetland? Yes ● No ○			
	Wetland Hydrology Present? Yes No					otidiid i	
Rema	arks: PEM1E wetland with flowing water. substrate simi	lar to SV	V12_134_0	J8, boo	ots punch t	through ca 3-4 in organics to rest on cobbles-boulders.	
VEGE	TATION - Use scientific names of plants. Lis	st all sp	ecies in	the p	olot.	1	
		Absolut			Indicator	Dominance Test worksheet:	
1.	e Stratum .	% Cove		ies?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3 (A)	
		0	_	_		Total Number of Dominant	
2. 3.			-	_		Species Across All Strata:3 (B)	
4.				_		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.			-	_			
0.	Total Cover:		_			Prevalence Index worksheet:	
San			– % of Total (Cover:	0	Total % Cover of: Multiply by: OBL Species 70 x 1 = 70	
			_	_		70	
	Salix fuscescens	2			FACW	FACW Species 2 x 2 = 4 FAC Species 0 x 3 = 0	
2.		•		_		FACU Species 0 x 4 = 0	
3. 4.		0		_		UPL Species 0 x 5 = 0	
5.		0		_			
6.				_		Column Totals: (A) (B)	
7.		0				Prevalence Index = B/A = 1.028	
8.		0	_ [Hydrophytic Vegetation Indicators:	
			_ [Dominance Test is > 50%	
10.		0	_ [✓ Prevalence Index is ≤3.0	
	Total Cover:	2	_			Morphological Adaptations (Provide supporting data in	
Her	b Stratum 50% of Total Cover:	1 20	0% of Total	Cover:	0.4	Remarks or on a separate sheet)	
1.	Eriophorum angustifolium	30	_	/	OBL	Problematic Hydrophytic Vegetation (Explain)	
2.	Carex aquatilis	20	_	/	OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Trichophorum caespitosum	15		/	OBL	be present, unless disturbed or problematic.	
	Carex rotundata	5	_		OBL	Plot size (radius, or length x width)	
				_		% Cover of Wetland Bryophytes	
			-	\exists		(Where applicable)	
			-	\exists		% Bare Ground	
				\exists		Total Cover of Bryophytes	
			-	ī		Hadan bada	
10.	Total Cover:			_		Hydrophytic Vegetation	
			_ % of Total (Cover:	14	Present? Yes No	
Rem	arks: no dominant shrubs, as total shrub cover <5%						
	,						

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SOIL Sampling Point: SW12_T34_09 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type ¹ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:³ **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) Underlying Layer Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) ✓ Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) ⁴ Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: H2S within upper 12inches

HIDROLOGI					
Wetland Hydrology Indicators: Secondary Indicators (two or more are re					
Primary Indicators (any one i	is sufficient)	Water Stained Leaves (B9)			
✓ Surface Water (A1)		☐ Inundation Visible on Aerial Image	ery (B7) Drainage Patterns (B10)		
High Water Table (A2)		Sparsely Vegetated Concave Surfa	ace (B8) Oxidized Rhizospheres along Living Roots (C3)		
Saturation (A3)		☐ Marl Deposits (B15)	Presence of Reduced Iron (C4)		
☐ Water Marks (B1)		✓ Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)		
Sediment Deposits (B2)		☐ Dry-Season Water Table (C2)	Stunted or Stressed Plants (D1)		
☐ Drift Deposits (B3)		Other (Explain in Remarks)	Geomorphic Position (D2)		
Algal Mat or Crust (B4)			Shallow Aquitard (D3)		
✓ Iron Deposits (B5)			☐ Microtopographic Relief (D4)		
Surface Soil Cracks (B6)	ı		FAC-neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes O No •		Depth (inches): 3			
Water Table Present? Yes O No •		Depth (inches):	Wetland Hydrology Present? Yes ● No ○		
Saturation Present? Yes No •		Depth (inches):			
Describe Recorded Data (stre	am gauge, monitor we	ell, aerial photos, previous inspection) if av	ailable:		
Remarks:					
H2S odor from walking through	gh wetland. iron floc or	n sediments.			

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