WETLAND DETERMINATION DATA FORM - Alaska Region

Proje	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date:06-Jul-13	
Applicant/Owner: Alaska Energy Authority Investigator(s): WAD, BAB Landform (Sampling Point: SW13_T103_05 millside, terrace, hummocks etc.): pond		
Subre	gion : Interior Alaska Mountains	Lat.:	 62.78175294	.36	Long.: -147.81422627 Datum: NAD83	
	ap Unit Name:		02.70170201		NWI classification: PEM1H	
	imatic/hydrologic conditions on the site typical for this	time of ve	ar? Yes	. No ○		
	Vegetation , Soil , or Hydrology	-	tly disturbed?		Normal Circumstances" present? Yes No No	
	Vegetation ☐ , Soil ☐ , or Hydrology ☐	-	problematic?		eded, explain any answers in Remarks.)	
SUM	MARY OF FINDINGS - Attach site map sho		mpling poin	tiocations	s, transects, important features, etc.	
	Hydrophytic Vegetation Present? Yes No		le	the Sam	ipled Area	
	Hydric Soil Present? Yes No			within a Wetland? Yes ● No ○		
_	Wetland Hydrology Present? Yes No)	YY	ittiiii a vv	etiana:	
Rem	narks: photo time 15:12 photo num 1073					
VEG	ETATION -Use scientific names of plants.	List all sp	ecies in the	plot.	T	
		Absolut		Indicator	Dominance Test worksheet:	
1.	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC:1 (A)	
					Total Number of Dominant	
2. 3.			-		Species Across All Strata: (B)	
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.			-			
	Total Cove	- <u> </u>	_		Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	– % of Total Cove	r: <u>0</u>	OBL Species 28.1 x 1 = 28.1	
	<u> </u>	0.1		FAC	FACW Species $0.1 \times 2 = 0.200$	
	Betula nana Salix pulchra		-	FACW	FAC Species 0.1 x 3 = 0.300	
3.	· · · · · · · · · · · · · · · · · · ·		-	TACW	FACU Species 0 x 4 = 0	
4.					UPL Species 0 x 5 = 0	
5.					Column Totals: 28.3 (A) 28.60 (B)	
6.						
7.		•			Prevalence Index = B/A = 1.011	
8.		0	_ 🔲		Hydrophytic Vegetation Indicators:	
9.		0	_		Dominance Test is > 50%	
10.		0	_		✓ Prevalence Index is ≤3.0	
	Total Cover 50% of Total Cover:			ur: 0.04	Morphological Adaptations (Provide supporting data in	
			_		Remarks or on a separate sheet)	
1.	Education of the Control of the Cont			OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Eriophorum angustifolium	$-\frac{5}{1}$		OBL OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
	Frionhorum scheuchzeri		_			
3.	Eriophorum scheuchzeri Comarum palustre		.	QBL		
	Comarum palustre			OBL	Plot size (radius, or length x width) 10m	
3. 4.	Comarum palustre Menyanthes trifoliata	2			% Cover of Wetland Bryophytes	
3. 4. 5. 6.	Comarum palustre Menyanthes trifoliata	0			% Cover of Wetland Bryophytes (Where applicable)	
3. 4. 5. 6. 7.	Comarum palustre Menyanthes trifoliata	0			% Cover of Wetland Bryophytes (Where applicable)	
3. 4. 5. 6. 7. 8.	Comarum palustre Menyanthes trifoliata	0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground 0	
3. 4. 5. 6. 7. 8. 9.	Comarum palustre Menyanthes trifoliata	0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic	
3. 4. 5. 6. 7. 8. 9.	Comarum palustre Menyanthes trifoliata	2 0 0 0 0 0 0		OBL	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes	

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SOIL Sampling Point: SW13_T103_05 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:** Histosol or Histel (A1) Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Under (Explain in Remarks) ✓ Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleved (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: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) ✓ Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) ✓ Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ✓ Hydrogen Sulfide Odor (C1) 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) ✓ FAC-neutral Test (D5) **Field Observations:** Yes ● No ○ Surface Water Present? Depth (inches): Yes ○ No ● **Wetland Hydrology Present?** Yes ● No ○ Water Table Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:

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