WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: N	Matanuska-Susitna Borough Sampling Date: 19-Aug-15									
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW15_T316_04										
Investigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): Depression											
Local relief (concave, convex, none): none		•									
Subregion : Cook Inlet Mountains Lat.	<u> </u>	Long.: Datum: WGS84									
Soil Map Unit Name:		NWI classification: PUBH									
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)											
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes • No											
Are Vegetation \Box , Soil \Box , or Hydrology \Box naturally problematic? (If needed, explain any answers in Remarks.)											
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.											
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$											
Hydric Soil Present? Yes No		ne Sampled Area nin a Wetland? Yes No O									
Wetland Hydrology Present? Yes $oldsymbol{igen}$ No $igodoldsymbol{igen}$	with	nin a Wetland? Yes $ullet$ No $igcup$									
Remarks:											
VEGETATION - Use scientific names of plants. List all s	pecies in the pl	ot.									
Absolu											
Tree Stratum % Cov	rer Species?	Status Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)									
		Total Number of Dominant									
2		Species Across All Strata: 0 (B)									
3		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)									
5.											
		Prevalence Index worksheet:									
Sapling/Shrub Stratum 50% of Total Cover: 0 2	Total % Cover of: Multiply by: $OBL Species 12 \times 1 = 12$										
		$\begin{array}{c c} & FACW \text{ Species} & \underline{0.1} & x \ 2 = & \underline{0.200} \\ FAC \text{ Species} & \underline{0} & x \ 3 = & \underline{0} \end{array}$									
2		$\begin{array}{c c} FAC Species \\ \hline \\ FACU Species \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ $									
3		$\begin{array}{c c} \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ $									
		Column Totals: <u>1.3</u> (A) <u>1.400</u> (B)									
7		Prevalence Index = B/A =1.077									
8.		Hydrophytic Vegetation Indicators:									
9.		Dominance Test is > 50%									
10.		✓ Prevalence Index is ≤3.0									
Total Cover:0		Morphological Adaptations (Provide supporting data in									
_Herb Stratum50% of Total Cover:	20% of Total Cover:	0 Remarks or on a separate sheet)									
1. Carex utriculata		OBL Problematic Hydrophytic Vegetation (Explain)									
2. Carex saxatilis 0.	·	FACW ¹ Indicators of hydric soil and wetland hydrology must									
3. Menyanthes trifoliata 0.	,	OBL be present, unless disturbed or problematic.									
4. Eriophorum angustifolium 0.		OBL Plot size (radius, or length x width) <u>5m</u>									
5 0		% Cover of Wetland Bryophytes									
0.		(Where applicable)									
1.		% Bare Ground									
8 0 9 0		Total Cover of Bryophytes									
9 0 10 0		Hydrophytic									
Total Cover: 1.3		Hydrophytic Vegetation									
50% of Total Cover: 0.65 2											

Remarks: Small lake with a few patches of emergent sedges, partially surrounded by sedge marsh fringe. Additional trace of Sparganium sp. Total herb cover <5%, thus no herb species considered dominant.

		e depth nee atrix	ded to docum	nent the indicator or co	nfirm the ab dox Featu		cators)			
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	R	emarks
								-	-	
	,				-					
									-	
	·						-	·		
	. <u> </u>									
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix										
Hydric Soil II	ndicators:			Indicators for P	oblemati	c Hydric S	oils: ³			
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4 1)		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	. ,			Alaska Alpine	wales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox	Nith 2.5Y H	lue	\checkmark	Other (Explain in Remark	s)	
Thick Dark	s Surface (A12)			30						
Alaska Gleyed (A13) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present										
Alaska Rec	. ,									
Alaska Gle	eyed Pores (A15)			⁴ Give details of c			ls l			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	?Yes 🖲	No 🔿
Depth (inch	nes):									
inundated pond	l, assume hydric	: soil.								
HYDROLO	GY									
Wetland Hydi	rology Indicat	ors:						Secondary Indi	cators (two or mo	re are required)
	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface W				Inundation V	isible on A	erial Image	ry (B7)		atterns (B10)	
	er Table (A2)			Sparsely Veg		ncave Surfa	ce (B8)	_		Living Roots (C3)
Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)								(4)		
	Deposits (B2)								Stressed Plants (1)
				Dry-Season		• •		_		01)
Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3)										
Iron Depo	()							_	raphic Relief (D4)
Surface So	oil Cracks (B6)							FAC-neutra	l Test (D5)	
Field Observa	ations:	_								
Surface Water	r Present?	Yes 🖲	No \bigcirc	Depth (inche	es): 36					
Water Table P	Present?	Yes 🖲	No \bigcirc	Depth (inche	es): 0		Wetla	nd Hydrology Presen	t?Yes 🖲	No \bigcirc
Saturation Pre (includes capil	esent?	Yes 🖲	No \bigcirc	Depth (inche	,					
Describe Record	ded Data (strea	m gauge, r	nonitor wel	l, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										

Shallow pond, maximum depth approx 1 meter