WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Samplir	ng Date: 04-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point	SW13_T109_02
Investigator(s): JGK	Landform (hills	de, terrace, hummocks etc.): Kettle	
Local relief (concave, convex, none): flat	Slope:	% /6.0 ° Elevation:693	
Subregion : Interior Alaska Mountains Lat.	62.8726670742	Long.: -148.272755742	Datum: NAD83
Soil Map Unit Name:		NWI classification	L1UBH
	ear? Yes (ntly disturbed? problematic?	No (If no, explain in Remark Are "Normal Circumstances" present (If needed, explain any answers in R	Yes $ullet$ No $igodot$
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point I	ocations, transects, important fe	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ● Yes ●	No () No ()	Is the Sampled Area within a Wetland? Yes No O
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland? Yes \bullet No \bigcirc
Remarks:			

VEGETATION - Use scientific names of plants. List all species in the plot.

	۸hc	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum		Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
1		0			Total Number of Dominant
2.		0			Species Across All Strata:(B)
3		0			Percent of dominant Species
4		0			That Are OBL, FACW, or FAC:(A/B)
5		0			Prevalence Index worksheet:
Total Cov	0			Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =
1		0			FACW Species <u>0</u> x 2 = <u>0</u>
2.		0			FAC Species x 3 =
3.		0			FACU Species x 4 =
4.		0			UPL Species x 5 =
5.		0			Column Totals: 20 (A) 20 (B)
6		0			
7		0			Prevalence Index = B/A = <u>1.000</u>
8		0			Hydrophytic Vegetation Indicators:
9		0			✓ Dominance Test is > 50%
10		0			✓ Prevalence Index is ≤3.0
Total Cov	er:	0			Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover:	0	_ 20%	of Total Cover:	0	Remarks or on a separate sheet)
1. Nuphar polysepala		20	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2		0			¹ Indicators of hydric soil and wetland hydrology must
3		0			be present, unless disturbed or problematic.
4.		0			Plot size (radius, or length x width) <u>10m</u>
5		0			% Cover of Wetland Bryophytes
6		0			(Where applicable)
7		0			% Bare Ground
8		0			Total Cover of Bryophytes
9		0			
10		0			Hydrophytic
Total Cov	er:	20			Vegetation
50% of Total Cover:	10	20%	of Total Cover:	4	Present? Yes No
Remarks: POND LILY ONLY IN PORTIONS OF LAKE					

SOIL

		e depth need atrix	led to docum	nent the indicator or co	onfirm the ab dox Featu		cators)		
Depth (inches)	Color (mois	+)	%	Color (moist)	%	Type ¹	2	Texture	Remarks
						1700	LUC		
_									
			·						
	·							8	
				···· 2,					
		Depletion. F	(M=Reduce	ed Matrix ² Location		-		nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for P		4	oils:		
Histosol or	Histel (A1)			Alaska Color C		-		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine	-	-		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue	\checkmark	Other (Explain in Remark	s)
Thick Dark	Surface (A12)								
Alaska Gley	/ed (A13)			³ One indicator of and an appropria				nary indicator of wetland h esent	ydrology,
🗌 Alaska Red	ox (A14)								
Alaska Gley	ed Pores (A15)			⁴ Give details of c	olor chang	e in Remari	ks		
Restrictive Laye	r (if present):								
Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	es):								
Remarks:							I.		
Lake, assume hy	dric soils								
Lake, assume m	une sons.								
HYDROLO	GY								
Wetland Hydr	ology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indicat		sufficient)							ned Leaves (B9)
Surface W	. ,			Inundation V	/isible on A	erial Image	ery (B7)		Patterns (B10)
High Wate	r Table (A2)			Sparsely Veg	jetated Cor	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposit	• •				f Reduced Iron (C4)
	Water Marks (B1) Hydrogen Sulfide Odor (C1)							Salt Depos	its (C5)
	Sediment Deposits (B2)							_	Stressed Plants (D1)
Drift Depo	sits (B3)			Other (Expla	in in Rema	arks)		Geomorph	ic Position (D2)
Algal Mat o	or Crust (B4)							Shallow Ac	juitard (D3)
Iron Depos	sits (B5)								graphic Relief (D4)
Surface Sc	il Cracks (B6)							✓ FAC-neutra	ll Test (D5)
Field Observa	tions:	0	0						
Surface Water	Present?	Yes 🖲	No \bigcirc	Depth (inche	es): 24				
Water Table Pi	resent?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pres		Yes \bigcirc	No 🖲	Depth (inche					
(includes capill					,				
Describe Record	led Data (strea	m gauge, n	ionitor well	l, aerial photos, pre	vious inspe	ection) if av	ailable:		
Remarks:									
WATER DEPTH									
pH 7.86 EC 90 mS			HIDDLL						