WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling I	Date: 04-Jul-13				
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T122_07				
Investigator(s): SLI, SCB	Landform (hills	ide, terrace, hummocks etc.): Lowland					
Local relief (concave, convex, none): none	Slope: 0.0	% / 0.0 ° Elevation: 740					
Subregion : Interior Alaska Mountains Lat.:	62.856799364	Long.: -148.471207023	Datum: WGS84				
Soil Map Unit Name:		NWI classification: F	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 , Soil , or Hydrology 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? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc
Remarks: small lowland pond				

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species		
1.	0			That are OBL, FACW, or FAC: (A)		
2.	0			Total Number of Dominant Species Across All Strata: 1 (B)		
3						
A				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	0					
Total Cover:				Prevalence Index worksheet:		
		of Total Covor	0	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>1.1</u> x 1 = <u>1.1</u>		
1	0			FACW Species x 2 =		
2.	0		-	FAC Species x 3 =		
3.				FACU Species <u>0</u> x 4 = <u>0</u>		
4.	0			UPL Species 0 x 5 = 0		
5.				Column Totals: <u>1.1</u> (A) <u>1.100</u> (B)		
6.						
7.				Prevalence Index = B/A = <u>1.000</u>		
8.				Hydrophytic Vegetation Indicators:		
9.				✓ Dominance Test is > 50%		
10.				✓ Prevalence Index is ≤3.0		
Total Cover:						
Herb Stratum 50% of Total Cover:		6 of Total Cover:	0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
	1	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
0 Existe han und en susstife lives	0.1		OBL			
a Manyanthaa trifaliata	0.1		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
0. <u> </u>			ODL			
4				Plot size (radius, or length x width) <u>10m</u>		
5				% Cover of Wetland Bryophytes		
6				(Where applicable)		
7				% Bare Ground		
8				Total Cover of Bryophytes		
9						
10				Hydrophytic		
Total Cover:		6		Vegetation Present? Yes • No O		
50% of Total Cover:	0.6 20%	of Total Cover:	0.24	Present? Yes • No ·		
Remarks: trace carex livida. vegetation along fringe of small lowland pond.						

		he depth nee latrix	ded to docume	ent the indicator or con Rec	nfirm the ab		ators)			
Depth (inches)	Color (moi	ct)	9/2	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
	Color (mol	st)	%	Color (moist)	-9/0	Туре	LOC	Texture	Keindriks	
	. <u> </u>									
1										
		Depletion. F		d Matrix ² Location		-		nnel. M=Matrix		
Hydric Soil In	ndicators:			Indicators for Pr		4	ils:			
Histosol or	Histel (A1)		l	Alaska Color Ch		-		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)		l	Alaska Alpine s	wales (TAS	5)		Underlying Layer		
Hydrogen	Sulfide (A4)		l	Alaska Redox V	Vith 2.5Y H	lue	\checkmark	Other (Explain in Remark	s)	
Thick Dark	Surface (A12)									
🗌 Alaska Glev	yed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,	
Alaska Red	ox (A14)				e ianuscap		iust be pre	esent		
_	yed Pores (A15)		⁴ Give details of co	olor change	e in Remarks	5			
Restrictive Laye	r (if present):									
Type:								Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inch	es):									
Remarks:	,									
		,		hytic vegetation an						
HYDROLO	GY									
Wetland Hydr	ology Indica	tors:						Secondary India	cators (two or more are required)	
Primary Indicat	ors (any one is	sufficient)							ned Leaves (B9)	
Surface W	ater (A1)			Inundation V	isible on A	erial Imager	v (B7)	Drainage P	atterns (B10)	
High Wate	r Table (A2)			Sparsely Veg		-			hizospheres along Living Roots (C3)	
Saturation	(A3)			Marl Deposits					f Reduced Iron (C4)	
Water Mar				Hydrogen Su	• •	(C1)		Salt Depos		
Sediment				Dry-Season V					Stressed Plants (D1)	
				Other (Explai		· · /		_	c Position (D2)	
	or Crust (B4)							Shallow Aq	()	
Iron Depo									raphic Relief (D4)	
	oil Cracks (B6)							FAC-neutra		
	. ,								Trest (D5)	
Field Observa		Yes 🖲		Dorth (a t	a), 24					
Surface Water		_	_	Depth (inche	s): 24					
Water Table P	resent?	Yes \bigcirc	No 🔍	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pre (includes capil		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Demail										
Remarks:										
unsure of pond	depth									