WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Ma	tanuska-Susitna Borough	Sampling Date:	24-Jun-12
Applicant/Owner: Alaska Energy Authority		Sampli	ing Point: SW1	12_T17_04
Investigator(s): SLI, LMF	Landform (hillside	, terrace, hummocks etc.):	Pothole	
Local relief (concave, convex, none): concave	Slope: 0.0 %	0.0 ° Elevation: 908	3	
Subregion : Southcentral Alaska Lat.:	62.792489909	Long.: -148.934019	997 Datu	ım: WGS84
Soil Map Unit Name:		NWI class	ification: PEM1F	
		No • (If no, explain ir Are "Normal Circumstances" (If needed, explain any ansv	" present? Yes 🖲	No ()
		ationa transata immo	where the fact was at	_

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydric Soil Present? Yes No Is the Sampled Area Wetland Hydrology Present? Yes No within a Wetland? Yes No	Hydrophytic Vegetation Present?	Yes 🖲	No 🔿	la the Compled Area	
	5		_	Is the Sampled Area within a Wetland?	Yes No

Remarks: sub-alpine pond with shallow water and angular cobble to boulder substrate.can hear flowing water in drainage entering pond from NE, but no visible flowing inlet to pond, indicating intermittent stream to NE (did not walk perimeter of pond, review aerials for inlets).

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

		Abso	luto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum		% C		Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.		-	0			Total Number of Dominant Species Across All Strata: 2 (B)
3			0			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.		-	0			
	Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum	50% of Total Cover:			f Total Cover:	0	
Saping/Sinab Stratain		0				
1			0			FACW Species <u>0</u> x 2 = <u>0</u>
2.		-	0		. <u> </u>	FAC Species $0 \times 3 = 0$
3		-	0			FACU Species x 4 =
4.			0			UPL Species x 5 =
5			0			Column Totals: <u>40</u> (A) <u>40</u> (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 Cover	: .	0			Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum	50% of Total Cover:	0	20% c	of Total Cover:	0	Remarks or on a separate sheet)
1. Eriophorum angustifolium			30	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex aquatilis			10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.			0			be present, unless disturbed or problematic.
4.			0			
5.			0			Plot size (radius, or length x width) <u>10m</u>
6.			0			% Cover of Wetland Bryophytes (Where applicable)
7.			0			% Bare Ground 90
8.			0			Total Cover of Bryophytes 5
9.			0			
		-	0	\Box		Underschadte
10	Total Cover	-	40			Hydrophytic Vegetation
	50% of Total Cover:	-		f Total Cover	8	Present? Yes • No
		20	20/00	i iotai covel.	0	

Remarks: characterizing pond fringe. no seed heads on caraqu, id based on gray-green leaves. trace calcan, carex sp, salix myrtifolia, equflu. trace vaculi and salmyr on local high point. vegetated area w thin mineral soil, liverworts and algae.

Depth (inches) Color	r (moist)	%	Color (moist)	<u>%</u> Type ¹	_Loc_2	Texture	Remarks
Type: C=Concentration	n. D=Depletior	ו. RM=Reduc	ed Matrix ² Location	n: PL=Pore Lining. R	C=Root Cha	annel. M=Matrix	
				roblematic Hydric S			
			Alaska Color Cl	4		Alaska Claved Without H	
Histosol or Histel (A:			Alaska Color Ci		L	Alaska Gleyed Without H Underlying Layer	ue 5Y or keader
Histic Epipedon (A2)			Alaska Alpine s			Other (Explain in Remark	(z)
Hydrogen Sulfide (A Thick Dark Surface (2)
Alaska Gleyed (A13)	. ,		³ One indicator of	hydrophytic vegetation	on, one prir	mary indicator of wetland h	ydrology,
Alaska Gleyeu (A13)			and an appropriat	te landscape position	must be pr	resent	
Alaska Gleyed Pores	(A15)		⁴ Give details of co	olor change in Remar	ks		
estrictive Layer (if prese							
Couldave Layer in press	sincy.						
Tyne						Hydric Soil Present	
Type: Depth (inches):						Hydric Soil Present	? Yes $ullet$ No $ightarrow$
Depth (inches):						Hydric Soil Present	? Yes 🖲 No
Depth (inches): emarks:	- water throug				etetion and	-	? Yes 🖲 No
Depth (inches):	g water throug	ihout site. a	ssume hydric soils du	ie to hydrophytic veg	etation and	-	? Yes • No ()
Depth (inches): emarks:	g water throug	Jhout site. a	ssume hydric soils du	ie to hydrophytic veg	etation and	-	? Yes • No O
Depth (inches): emarks:	g water throug	Jhout site. a	ssume hydric soils du		etation and	-	? Yes 🖲 No
Depth (inches): emarks: o soil pit due to standing	g water throug	ghout site. a	ssume hydric soils du	Je to hydrophytic veg	etation and	-	? Yes • No O
Depth (inches): emarks: o soil pit due to standing YDROLOGY		jhout site. a	ssume hydric soils du	ue to hydrophytic veg	etation and	wetland hydrology.	
Depth (inches): emarks: o soil pit due to standing YDROLOGY Vetland Hydrology In	dicators:		ssume hydric soils du	ue to hydrophytic veg	etation and	vetland hydrology.	cators (two or more are required)
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Remarks:

Iron floc on pond substrates. Green algae interspersed w liverworts, though not dried into a mat at time of site visit. water depth in vegetated area 12-16in.