WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 05-Aug-13				
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T201_05				
	gator(s): SLI, EAC		Landform (h	Landform (hillside, terrace, hummocks etc.): Toeslope					
	relief (concave, convex, none): none		Slope:		D ° Elevation: 679				
		1 -1							
	gion : Interior Alaska Mountains	Lat.:	63.36331951	64	Long.:148.944624901				
	ap Unit Name:				NWI classification: PEM1E				
Are \	/egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significan naturally p wing sa	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes No No		Is	the Sam	pled Area				
	Hydric Soil Present? Yes No			within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes ● No Carks: snags, dead and down wood scattered through c								
	ETATION - Use scientific names of plants. L	ist all sp Absolute % Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species				
1.		0			That are OBL, FACW, or FAC: (A)				
2.					Total Number of Dominant				
3.					Species Across All Strata: (B)				
4.		0	- =		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.		0	-						
0.	Total Cover		_		Prevalence Index worksheet:				
601	oling/Shrub Stratum 50% of Total Cover:		– % of Total Cove	r: 0	Total % Cover of: Multiply by:				
Sal	John of Total Cover.	0 20	70 01 10tal cove		OBL Species <u>54.1</u> x 1 = <u>54.1</u>				
1.		0	_		FACW Species 0 x 2 = 0				
2.		0	_		FAC Species 45.1 x 3 = 135.3				
3.		0	-		FACU Species 0 x 4 = 0				
4.			-		UPL Species 0 x 5 = 0				
5.		0	_		Column Totals: 99.2 (A) 189.4 (B)				
6.			-		Prevalence Index = B/A = 1.909				
7.		0	-						
8.		0	-		Hydrophytic Vegetation Indicators:				
9.		0	_		✓ Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
Hei	Total Cover rb Stratum 50% of Total Cover:		_ 0% of Total Cove	er: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Calamagrostis canadensis	45	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Carex aquatilis			OBL	¹ Indicators of hydric soil and wetland hydrology must				
3.	Equisetum fluviatile	1		OBL	be present, unless disturbed or problematic.				
4.	Hippuris vulgaris			OBL	Plot size (radius, or length x width)				
	Comarum palustre			OBL	% Cover of Wetland Bryophytes				
5.		5	-	OBL	(Where applicable)				
5. 6.	Caltha leptosepala			OBL	% Bare Ground95				
	Caltha leptosepala Eriophorum angustifolium	15							
6. 7.	Frienderum engustifelium	0.1		FAC	Total Cover of Bryophytes				
6. 7.	Eriophorum angustifolium	0.1		FAC					
6. 7. 8.	Eriophorum angustifolium Rumex arcticus	0.1		FAC					
6. 7. 8. 9.	Eriophorum angustifolium Rumex arcticus	0.1 0 0 99.2			Total Cover of Bryophytes				

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SOIL Sampling Point: SW13_T201_05

		the depth nee	eded to docume	nt the indicator o	r confirm the abs		ators)				
(inches)	Olor (moist) %		% (Color (moist) % Type		Type ¹	Loc ²	Texture	Remarks		
0-8	5PB	4/1		2.5YR 4/8		C	PL	Silt Loam			
¹Type: C=Cor	ncentration. D=	-Depletion.						nnel. M=Matrix			
Hydric Soil I	ndicators:		J	Indicators for	Problemation	Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Colo	r Change (TA4	4 1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	` ,				ne swales (TA5		Underlying Layer				
	Sulfide (A4)			_	ox With 2.5Y H	-		Other (Explain in Remarks)			
_ ` `	` ,				,	iuc		· ·	,		
	Surface (A12)	i		³ One indicator	r of hydrophyt	ic vegetatio	n, one prim	nary indicator of wetland h	ydrology,		
Alaska Gle				and an approp					,		
✓ Alaska Red	. ,			4 Give details of	of color change	a in Domark	·c				
☐ Alaska Gle	eyed Pores (A15	j)		Give details (n color change	e III Neillaik	.5				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	? Yes ● No ○		
Depth (inch	nes):							,			
Remarks:											
HYDROLO											
Wetland Hydi	rology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient)	<u> </u>					Water Stair	ned Leaves (B9)		
✓ Surface W	/ater (A1)			Inundatio	n Visible on A	erial Image	ry (B7)	Drainage P	atterns (B10)		
✓ High Wate	er Table (A2)			Sparsely \	Vegetated Con	cave Surfac	ce (B8)	Oxidized RI	nizospheres along Living Roots (C3)		
✓ Saturation	n (A3)				osits (B15)		• •	Presence o	f Reduced Iron (C4)		
☐ Water Ma	rks (B1)				Sulfide Odor	(C1)		Salt Deposi	its (C5)		
✓ Sediment					on Water Table	. ,			Stressed Plants (D1)		
☐ Drift Depo					plain in Remai				c Position (D2)		
l —	or Crust (B4)				piairi iri Kerilai	11.5)		Shallow Aq			
✓ Iron Depo											
· ·								_	raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	i Test (D5)		
Field Observa		Vac (No O	Danth (in							
Surface Water	r Present?			Deptn (in	iches): 2						
Water Table P	resent?	Yes 🖭	No \bigcirc	Depth (in	iches): 0		Wetlar	nd Hydrology Presen	t? Yes • No 🔾		
Saturation Pre (includes capil		Yes	No O	Depth (in	iches): 0						
Describe Record	ded Data (strea	am gauge, i	monitor well,	aerial photos, j	previous inspe	ction) if ava	ilable:				
Remarks:											
scattered surfa	ce water in gra	minoid com	nmunity w iron	n floc and biog	enic sheen. sn	nall pond in	center of c	community, unknown depth	ı.		

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