WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 25-Jun-12
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T21_07
	gator(s): SLI, LMF		Landform (hill	side, terrac	e, hummocks etc.): Lowland
	relief (concave, convex, none): none		Slope: 0.0		
Subred	gion : Interior Alaska Mountains	Lat ·	62.787869908		Long.: -148.593939971 Datum: WGS84
	p Unit Name:		02.707003300		NWI classification: PEM1F
	matic/hydrologic conditions on the site typical for this ti	imo of voor	2 Vec	● No ○	(If no, explain in Remarks.)
Are \	regetation ☐ , Soil ☐ , or Hydrology ☐ regetation ☐ , Soil ☑ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sho	significantly naturally pr wing san	y disturbed? oblematic?	Are "N (If nee	ormal Circumstances" present? Yes No O
	Hydrophytic Vegetation Present? Yes No C		ls	the Sam	pled Area
	Hydric Soil Present? Yes No C			thin a W	-
	Wetland Hydrology Present? Yes No C)	•••	4 11	otidiid i
	earks: characterizing emergent community immediate				, cannot walk out into community.
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.	-	0			Total Number of Dominant
2.		0			Species Across All Strata: 2 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover		-f.T-+-1.C	_	Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>80</u> x 1 = <u>80</u>
1.	Salix pulchra	10	✓	FACW	FACW Species 10 x 2 = 20
	Picea glauca	1		FACU	FAC Species 0 x 3 = 0
3.					FACU Species 1 x 4 = 4
4.					UPL Species <u>0</u> x 5 = <u>0</u>
5.					Column Totals: 91 (A) 104 (B)
6.		•			Prevalence Index = B/A =1.143_
7.			H		
8. a					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
			П		✓ Prevalence Index is ≤3.0
	Total Cover b Stratum 50% of Total Cover:		6 of Total Cover	: 2.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Education of the Control of the Cont		✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
	Eriopnorum angustiroilum		Π		¹ Indicators of hydric soil and wetland hydrology must
		_			be present, unless disturbed or problematic.
					District (and its on long other, width)
					Plot size (radius, or length x width) % Cover of Wetland Bryophytes
		_			(Where applicable)
7.		0			% Bare Ground
8.		0			Total Cover of Bryophytes
_					
9.		0			Hydrophytic
	Total Cover		of Total Cover:	16	Vegetation Present? Yes No

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SOIL Sampling Point: SW12_T21_07

Depth (inches) Col			Re	dox Featur	res			
	or (moist)	%	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks
								-
							-	
								_
Type: C=Concentrati	on D=Denletion	n RM=Reduce	ed Matrix ² Locatio	n. DI =Pore	Lining RC	=Root Char	nnel M=Matrix	-
		- Reduce	Indicators for P				inci. Pi–Piduix	
ydric Soil Indicato			Alaska Color C		4	olis:	Alaska Claused Without I	lua EV au Daddau
☐ Histosol or Histel (•		Alaska Color C		-		Alaska Gleyed Without F Underlying Layer	lue 5Y or Redder
Histic Epipedon (A	-		Alaska Redox	` '	,	✓	Other (Explain in Remar	ks)
	. ,		Alaska Redox	WIGH 2.51 11	ue		(- · p · · · · · · · · · · · · · · ·	,
Alaska Gleyed (A1:	` ,						ary indicator of wetland	hydrology,
Alaska Redox (A14	-		and an appropria	ite landscape	e position r	nust be pre	sent	
Alaska Gleyed Pore	•		4 Give details of of	color change	in Remark	S		
estrictive Layer (if pre	esent):							
Type:	,						Hydric Soil Present	t? Yes 💿 No 🔾
Depth (inches):							•	-
soil pit due to stand	ing water throug	ghout site. as	sume hydric soils d	ue to hydrop	ohytic vege	tation and p	orimary hydrology indicat	ors.
o soil pit due to stand	ing water throug	ghout site. as	sume hydric soils d	ue to hydrop	ohytic vege	tation and p	primary hydrology indicat	ors.
YDROLOGY		ghout site. as	sume hydric soils d	ue to hydrop	ohytic vege	tation and p	orimary hydrology indicat	ors.
YDROLOGY etland Hydrology 1	Indicators:		ssume hydric soils d	ue to hydrop	ohytic vege	tation and p	_Secondary Ind	icators (two or more are required)
YDROLOGY etland Hydrology I	Indicators: y one is sufficier						Secondary Ind Water Sta	icators (two or more are required) ined Leaves (B9)
YDROLOGY Tetland Hydrology I Trimary Indicators (and Surface Water (A)	Indicators: y one is sufficier		Inundation \	Visible on Ae	erial Image	ry (B7)	Secondary Ind Water Sta Drainage	icators (two or more are required) ined Leaves (B9) Patterns (B10)
/DROLOGY etland Hydrology I imary Indicators (and Surface Water (AI High Water Table	Indicators: y one is sufficier		☐ Inundation \	Visible on Ae getated Cond	erial Image	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C
YDROLOGY Tetland Hydrology I Timary Indicators (an Surface Water (Al High Water Table Saturation (A3)	Indicators: y one is sufficier l) (A2)		☐ Inundation \ ☐ Sparsely Ved ☐ Marl Deposit	Visible on Ae getated Cond ts (B15)	erial Image cave Surfac	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
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YDROLOGY etland Hydrology I rimary Indicators (and Surface Water (Ald High Water Table Saturation (A3) Water Marks (B1) Sediment Deposite	Indicators: y one is sufficier (A2) s (B2)		Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season	Visible on Ae getated Cond ts (B15) ulfide Odor (Water Table	erial Image cave Surfac (C1) e (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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