## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 11-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T126_17
	gator(s): SLI, SCB		Landform (hil	lside, terrac	ce, hummocks etc.): Flat
	relief (concave, convex, none): tussocks		Slope:		7 ° Elevation: 735
	gion : Southcentral Alaska	l at ·	62.88829016		Long.: -149.375271478 Datum: NAD83
			02.00029010	+0	
	ap Unit Name:		• V	<b>○</b> N: ○	NWI classification: PEM1F
Are \	/egetation ☐ , Soil ☑ , or Hydrology ☐ MARY OF FINDINGS - Attach site map show	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes  ● No  ○ eded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes   No   No		le	the Sam	ipled Area
	Hydric Soil Present? Yes   No	)			
	Wetland Hydrology Present?  Yes  No Carks: plot includes both saturated and semi-perm flood		ļ	ithin a W	oliana i
	ETATION - Use scientific names of plants. Li	ist all spe Absolute % Cover	Dominant		Dominance Test worksheet:  Number of Dominant Species
1 re	e Stratum	0	_ Species:	Status	That are OBL, FACW, or FAC:3(A)
2.			. 🗀		Total Number of Dominant
3.			. 📙		Species Across All Strata: 3 (B)
4.			·		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	·		
	Total Cover				Prevalence Index worksheet:  Total % Cover of: Multiply by:
San	oling/Shrub Stratum 50% of Total Cover:		6 of Total Cover	: 0	001.0
1.					
2.		•	. 📙		FAC Species 71 x 3 = 213 FACU Species 3 x 4 = 12
3. 4.		_			UPL Species $0 \times 5 = 0$
5.			· 📙		
6.	-				Column Totals: <u>101</u> (A) <u>273</u> (B)
7.		0	·		Prevalence Index = B/A = 2.703
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:		% of Total Cove	r: 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Calamagrostis canadensis	_50	<b>~</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Equisetum arvense	20	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Chamaenerion angustifolium	1		FACU	be present, unless disturbed or problematic.
4.	Rumex arcticus	1		FAC	Plot size (radius, or length x width) 10m
5.	Eriophorum scheuchzeri			OBL	% Cover of Wetland Bryophytes
6.	Senecio triangularis			FACW	(Where applicable)
7.	Heracleum maximum			FACU	% Bare Ground30
	Carex aquatilis			OBL	Total Cover of Bryophytes
8.	Arctagrostis latifolia			FACW	
9.	Arctagrostis fatilolla	_	1 1		
		0			Hydrophytic
9.	Total Cover 50% of Total Cover:	101	6 of Total Cover	: 20.2	Hydrophytic Vegetation Present?  Yes No

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Depth —	Matrix		Rec					
" i \	(moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks
								_
								_
								_
			-					
				-			-	_
Type: C=Concentration	D=Depletion	RM=Redu	red Matrix <sup>2</sup> Location	· PI =Por	– — Ro	=Root Cha	nnel M=Matrix	-
			Indicators for Pr				Tillett PI-Piddix	
lydric Soil Indicators			Alaska Color Ch		4	Olis:	Alaska Claured With aut I	lua EV au Daddau
☐ Histosol or Histel (A1	)		Alaska Alpine s		-		Alaska Gleyed Without I Underlying Layer	tue 5Y or Redder
Histic Epipedon (A2)			Alaska Redox V	•	•	<b>✓</b>	Other (Explain in Rema	·ks)
	•		Alaska Neuox V	VIGI 2.51 1	iuc		( р	/
Alaska Gleyed (A13)	(12)						nary indicator of wetland	hydrology,
Alaska Redox (A14)			and an appropriat	e landscap	e position	must be pre	esent	
Alaska Gleyed Pores	(A15)		<sup>4</sup> Give details of co	olor chang	e in Remarl	ks		
estrictive Layer (if prese	nt):							
	•						Hydric Soil Presen	t? Yes ● No ○
Type:								
	hydrophytic v	egetation ar	nd standing water					
Depth (inches): emarks: ssume hydric soil due to	hydrophytic v	egetation ar	nd standing water					
Depth (inches): emarks: essume hydric soil due to		egetation ar	nd standing water				Secondary Inc	licators (two or more are required)
Depth (inches): emarks: ssume hydric soil due to  YDROLOGY Vetland Hydrology Inc	licators:		nd standing water					licators (two or more are required)
Depth (inches): emarks: ssume hydric soil due to  YDROLOGY //etland Hydrology Inchimary Indicators (any of	licators:			isible on A	erial Image	erv (B7)	Water Sta	ined Leaves (B9)
Depth (inches): emarks: ssume hydric soil due to  YDROLOGY //etland Hydrology Inches rimary Indicators (any of Surface Water (A1)	licators: ne is sufficien		Inundation V		-	, , ,	Water Sta	ined Leaves (B9) Patterns (B10)
Depth (inches): emarks: ssume hydric soil due to  YDROLOGY //etland Hydrology Inchimary Indicators (any of	licators: ne is sufficien			etated Cor	-	, , ,	Water Sta	ined Leaves (B9)
Depth (inches): emarks: sume hydric soil due to  YDROLOGY //etland Hydrology Incrimary Indicators (any of the sum of the	licators: ne is sufficien		☐ Inundation V ☐ Sparsely Veg	etated Cor s (B15)	ncave Surfa	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
Depth (inches): emarks: ssume hydric soil due to  YDROLOGY /etland Hydrology Inchrimary Indicators (any of surface Water (A1) High Water Table (A) Saturation (A3)	<b>licators:</b> ne is sufficien 2)		☐ Inundation V☐ Sparsely Veg	etated Cor s (B15) Ifide Odor	ncave Surfa	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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