WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 04-Aug-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T99_04
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Alluvial fan
Local relief (concave, convex, none): flat	Slope: 0.0 % / 0.0 ° Elevation: 582
Subregion : Southcentral Alaska Lat.:	62.6857265784 Long.: -148.928503306 Datum: WGS84
Soil Map Unit Name:	NWI classification: PSS1E
	ar? Yes ● No ○ (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes ● No ○ problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.

Hvdric Soil Present? Yes Vis Vis Vis Hvdric Soil Present?	Is the Sampled Area within a Wetland? Yes No O
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Remarks: here to lakeshore is PSS1E closed tall willow community w standing water and flowing channels. more zonation into saturated scrub-shrub/flooded emergents near lakeshore, but still too fine of a scale to map independently. many channels well-developed and

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

		Abc	olute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum		over	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: 4 (B)		
3.			0			Percent of dominant Species		
4.		-	0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
5.			0			Prevalence Index worksheet:		
	Total Cover		0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20% (of Total Cover:	0	OBL Species 26 x 1 = 26		
1	Salix pseudomonticola		35	\checkmark	FAC	FACW Species 58 x 2 = 116		
2.			5		FAC	FAC Species 41 x 3 = 123		
3.			7	\square	FACW	FACU Species $1 \times 4 = 4$		
4.	Picea mariana Salix pulchra		35	\checkmark	FACW	UPL Species $0 \times 5 = 0$		
5.			0			Column Totals: 126 (A) 269 (B)		
6.			0					
			0			Prevalence Index = B/A = 2.135		
			0			Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
				Morphological Adaptations ¹ (Provide supporting data in				
Her	b Stratum 50% of Total Cover:	41	20%	of Total Cover:	16.4	Remarks or on a separate sheet)		
1.	Comarum palustre		5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Cornus canadensis		1		FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Rubus arcticus ssp. acaulis		1		FAC	be present, unless disturbed or problematic.		
4.	Equisetum fluviatile		1		OBL	Plot size (radius, or length x width)		
5.	Arctagrostis latifolia		15	\checkmark	FACW	% Cover of Wetland Bryophytes		
6.	Carex aquatilis		20	\checkmark	OBL	(Where applicable)		
7.	Equisetum pratense		1		FACW	% Bare Ground		
8.			0			Total Cover of Bryophytes		
9.			0					
10.			0			Hydrophytic		
	Total Cover	• _	44			Vegetation		
	50% of Total Cover:	22	20% (of Total Cover:	8.8	Present? Yes No		
Rem	parks: 1% viola on calney as at 03 catking and big	rod h	ude					

viola sp. salpsu as at _03, catkins and big red buds.

Profile Description: (Describe to the depth r Matrix	needed to document the indicator or \mathfrak{c}				
(inches) Color (moist)	% Color (moist)		ype ¹ Loc	2 Texture	Remarks
				P	
				_	
			,		
			,		
¹ Type: C=Concentration. D=Depletion	PM-Peduced Matrix ² Locati		ing PC-Poot (
Hydric Soil Indicators:	Indicators for I		5		
Histosol or Histel (A1)		Change (TA4)	une sons.	Alaska Gleyed Without Hue	SV or Poddor
Histic Epipedon (A2)		swales (TAT)		Underlying Layer	
Hydrogen Sulfide (A4)		With 2.5Y Hue		✓ Other (Explain in Remarks))
Thick Dark Surface (A12)					
Alaska Gleyed (A13)	³ One indicator of and an appropri	egetation, one p	rimary indicator of wetland hyd	drology,	
Alaska Redox (A14)				present	
Alaska Gleyed Pores (A15)	⁴ Give details of	color change in	Remarks		
Restrictive Layer (if present):					
Туре:				Hydric Soil Present?	Yes 🖲 No 🔿
Depth (inches):					
Remarks:					
assume hydric soils due to standing wa	ter and hydrophytic vegetation				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (two or more are required)
Primary Indicators (any one is sufficier	nt)			Water Staine	ed Leaves (B9)
Surface Water (A1)	Inundation	Visible on Aerial	Imagery (B7)	🗌 Drainage Pa	tterns (B10)
High Water Table (A2)	Sparsely Ve	getated Concav	e Surface (B8)		zospheres along Living Roots (C3)
Saturation (A3)	Marl Depos	. ,		_	Reduced Iron (C4)
Water Marks (B1)		Sulfide Odor (C1)		Salt Deposits	. ,
Sediment Deposits (B2)		Water Table (C			tressed Plants (D1)
Drift Deposits (B3)	□ Other (Expl	ain in Remarks)		Geomorphic Geomorphic Shallow Aqu	()
Algal Mat or Crust (B4)				🔄 Shallow Aqu	ilaiu (DS)
✓ Iron Deposits (B5)					aphic Relief (D4)

PSS1E community - closed tall salix with surface water pools and channels. dominant obligate understory and sphagnum moss indicate that soils are aturated when
surface water is absent. iron floc in pools.

Field Observations:

Surface Water Present?

(includes capillary fringe)

Water Table Present?

Saturation Present?

Remarks:

Yes \bullet No \bigcirc

 $_{\rm Yes} \odot \ _{\rm No} \odot$

Yes 🔘 No 🖲

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Depth (inches): 4

Depth (inches):

Depth (inches):

Wetland Hydrology Present?

Yes 💿 No 🔾