WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date	: 01-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point:	SW13_T202_05
Investigator(s): CTS, AMD	Landform (hills	side, terrace, hummocks etc.):	Floodplain	
Local relief (concave, convex, none): flat	Slope:	% / 1.1 ° Elevation: 653	3	
Subregion : Interior Alaska Mountains Lat.	63.396466670	1Long.: _148.536999	9999	Datum: NAD83
Soil Map Unit Name:		NWI class	ification: PSS	IC
	ear? Yes (antly disturbed? y problematic?	No (If no, explain ir Are "Normal Circumstances" (If needed, explain any answ	' present? Ye	es

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ● Yes ●	No () No ()	Is the Sampled Area
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland? Yes \bullet No \bigcirc
Remarks:			

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

		۸h	solute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: (A)
2.			0			Total Number of Dominant
3.		_				Species Across All Strata: <u>2</u> (B)
		_	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
4.		_	0			That Are OBL, FACW, or FAC:(A/B)
5.			0			Prevalence Index worksheet:
	Total Cov		0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species <u>55.1</u> x 1 = <u>55.1</u>
1.	Myrica gale		55	\checkmark	OBL	FACW Species 22.1 x 2 = 44.20
2.	Salix alaxensis		30	\checkmark	FAC	FAC Species <u>35.2</u> x 3 = <u>105.6</u>
3.	Salix richardsonii		20		FACW	FACU Species x 4 =
4.	Salix pseudomonticola		3		FAC	UPL Species x 5 =
5.	Salix pulchra		2		FACW	Column Totals: <u>112.4</u> (A) <u>204.9</u> (B)
6.	Dasiphora fruticosa		2		FAC	
7.			0			Prevalence Index = B/A = <u>1.823</u>
			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤ 3.0
	Total Cov	er:	112			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:			of Total Cover:	22.4	Remarks or on a separate sheet)
1.	Calamagrostis canadensis	_	0.1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis		0.1		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Parnassia palustris		0.1		FACW	be present, unless disturbed or problematic.
4.	Equisetum arvense		0.1		FAC	Plot size (radius, or length x width) 10m
5.			0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
~			0			(Where applicable)
			0			% Bare Ground <u>40</u>
			0			Total Cover of Bryophytes 0
			0			
40			0			Hudvonhutio
10.	Total Cov	or	0.4			Hydrophytic Vegetation
	50% of Total Cover:			of Total Cover:	0.08	Present? Yes • No
		0.2	0/0		0.00	

Remarks: Lichen = 0. Slow with substantial low Myrgal in understory below low willows on gravel bar. no dominant herbs as total herb cover <5%.

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Depth	Matrix			Red	ox Featu	res		_	
<i>a</i> i ,	(moist)	%	Color (mo	ist)	%	Type ¹	Loc ²	Texture	Remarks
0-8 5Y	4/2	100						Loamy Sand	
8-20 5Y	4/2	70	10YR	4/6	30	С	PL	Sandy Loam	
	, ,		,				-		
								-	
¹ Type: C=Concentration.	D=Depletion	. RM=Reduc	ced Matrix	² Location	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil Indicators:			Indicato	rs for Pro	oblemati	: Hydric So	oils: ³		
Histosol or Histel (A1))		Alaska	a Color Ch	ange (TA	4) 4)] Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska	a Alpine sv	wales (TA	5)	_	Underlying Layer	
Hydrogen Sulfide (A4)		Alaska	a Redox W	/ith 2.5Y F	lue		Other (Explain in Remarl	<s)< td=""></s)<>
Thick Dark Surface (A	A12)		3 One inc	licator of I	hydrophyt	ic vegetatio	n one prir	nary indicator of wetland h	vdrology
Alaska Gleyed (A13)						e position r			ryurology,
✓ Alaska Redox (A14)			⁴ Give de	tails of co	lor chang	e in Remark	s		
Alaska Gleyed Pores (,				5				
Restrictive Layer (if preser	nt):								
Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inches):									
HYDROLOGY									
HYDROLOGY Wetland Hydrology Ind	licators:							_Secondary Indi	cators (two or more are required)
		t)							cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Ind		t)	Inur	ndation Vi	sible on A	erial Imager	у (В7)	Water Stai	
Wetland Hydrology Ind Primary Indicators (any o	ne is sufficien	t)				erial Imagen	, , ,	Water Stai	ned Leaves (B9)
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