WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	08-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point: S	W13_T203_05
Investigator(s): CTS, AMD	Landform (hills	side, terrace, hummocks etc.):	Floodplain	
Local relief (concave, convex, none): flat	Slope:	% / 13.7 ° Elevation: 64	1	
Subregion : Interior Alaska Mountains Lat.:	63.400334987	6 Long.: -148.587689	9771 C	Datum: NAD83
Soil Map Unit Name:		NWI class	ification: PSS10	C
	ar? Yes (tly disturbed? problematic?	 No (If no, explain ir Are "Normal Circumstances" (If needed, explain any answ 	" present? Yes	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, impor	rtant features,	etc.

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

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

			Absolute	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.						Total Number of Dominant Species Across All Strata: 1 (B)
3.			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:
		al Cover:				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Co	ver:	0 20%	of Total Cover:	0	OBL Species <u>80</u> x 1 = <u>80</u>
1.	Myrica gale		80	\checkmark	OBL	FACW Species 3 x 2 = 6
2.	Salix alaxensis		30		FAC	FAC Species x 3 =234
3.	Salix pseudomonticola		25		FAC	FACU Species <u>1.1</u> x 4 = <u>4.400</u>
4.	Salix barclayi		10		FAC	UPL Species x 5 =
5.	Dasiphora fruticosa				FAC	Column Totals: <u>162.1</u> (A) <u>324.4</u> (B)
6.	Alnus viridis		3		FAC	
7.	Salix arbusculoides		3		FACW	Prevalence Index = B/A = 2.001
8.			0			Hydrophytic Vegetation Indicators:
						✓ Dominance Test is > 50%
			0			✓ Prevalence Index is \leq 3.0
		al Cover:	159			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total C	over:		6 of Total Cover	31.8	Remarks or on a separate sheet)
1.	Calamagrostis canadensis		2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Hedysarum alpinum		1		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus arcticus (IAM)		0.1		FACU	be present, unless disturbed or problematic.
4.			•			Dist size (radius, ar length y width)
5.			-			Plot size (radius, or length x width) <u>10m</u>
						% Cover of Wetland Bryophytes (Where applicable)
			-			% Bare Ground
						Total Cover of Bryophytes 0
			0			Hydrophytic
		al Cover:	3.1			Vegetation
				of Total Cover:	0.62	Present? Yes • No
Dom	$parks:$ Lishen -0 total both cover cE^{0} the					۱ <u>ــــــــــــــــــــــــــــــــــــ</u>

Remarks: Lichen = 0. total herb cover <5%, thus no herbs considered dominant.

S	O	I	L
U	v		_

Profile Descripti Depth		Matrix			Red	lox Featu	ires		_		
(inches)	Color (mo	oist)	%	Color (r	noist)	%	Type ¹	Loc 2	Texture	Remarks	
0-11	5Y	3/1	85	7.5YR	4/6	15	С	PL	Sandy Loam	Very fibric	
11-20	5Y	4/1	80	10YR	5/8	20	С	PL	Sandy Loam		
	. <u> </u>		,		-			-			
Type: C=Cor	ncentration. D	=Depletior	n. RM=Redu				-		annel. M=Matrix		
lydric Soil I	ndicators:				tors for Pr		4	oils: ³	_		
	r Histel (A1)				ska Color Ch		-		Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder	
Histic Epip					ska Alpine s	•	,	Г	, , ,	arkc)	
_ · ·	Sulfide (A4)	、			ska Redox V	vith 2.5Y H	lue	Ĺ	Other (Explain in Rem		
Thick Dark Alaska Gle	(Surface (A12)		³ One i	indicator of	hydrophyt	tic vegetatio	on, one prir	mary indicator of wetland	l hydrology,	
Alaska Gle	, , ,			and an	n appropriat	e landscap	pe position i	must be pr	esent		
_	eyed Pores (A1	5)		4 Give	details of co	olor chang	e in Remarl	ks			
	er (if present):										
Type:	er (ir present).								Hydric Soil Prese	nt? Yes 🖲 No 🔾	
Depth (inch	nes):								Tryunc Son Frese		
emarks:											
	GY										
YDROLO	-	ntors:							Secondary Ir	idicators (two or more are re	equired)
YDROLO Vetland Hydr	GY rology Indica		nt)							idicators (two or more are re tained Leaves (B9)	equired)
YDROLO Vetland Hydr	rology Indication to the second secon		1t)	Ir	nundation Vi	isible on A	erial Image	ery (B7)	Water S		equired)
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