WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	03-Aug-13
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point:SV	V13_T194_06
Investigator(s): SLI, EAC	Landform (hills	side, terrace, hummocks etc.):	Floodplain	
Local relief (concave, convex, none): flat	Slope: 10.5	% / 6.0 ° Elevation: 857	-	
Subregion : Interior Alaska Mountains Lat.:	63.352012396	Long.: -148.336481	452 Da	atum: WGS84
Soil Map Unit Name:		NWI classi	fication: PSS1C	
	ar? Yes (ntly disturbed? problematic?	 No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ 	present? Yes	● No ○
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, impor	tant 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 \odot No \bigcirc
Remarks:				

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

		Absolute	e Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species
1.	Salix alaxensis	15	\checkmark	FAC	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	15	_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 209	% of Total Cover:	3	OBL Species $0 \times 1 = 0$
1.	Ribes triste	1		FAC	FACW Species 27.1 x 2 = 54.20
2.	Salix pulchra	7		FACW	FAC Species <u>167.1</u> x 3 = <u>501.3</u>
3.	Salix richardsonii			FACW	FACU Species ####; x 4 =32.80
4.	Salix alaxensis	50		FAC	UPL Species x 5 =
5.	Salix barclayi	10		FAC	Column Totals: <u>202.4</u> (A) <u>588.3</u> (B)
6.		0			
					Prevalence Index = B/A = <u>2.907</u>
					Hydrophytic Vegetation Indicators:
					✓ Dominance Test is > 50%
		0			✓ Prevalence Index is \leq 3.0
	Total Cover	73	-		Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	36.5 20	% of Total Cover:	14.6	Remarks or on a separate sheet)
1.	Petasites frigidus	15		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Calamagrostis canadensis	20	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Mertensia paniculata	3		FACU	be present, unless disturbed or problematic.
4.	Aconitum delphinifolium	1		FAC	Plot size (radius, or length x width) 5m
5.	Heracleum maximum	5		FACU	Plot size (radius, or length x width) <u>_5m</u> % Cover of Wetland Bryophytes
6.	Chamerion angustifolium	0.1		FACU	(Where applicable)
7.	Equisetum arvense	60	\checkmark	FAC	% Bare Ground
8.	Artemisia tilesii	0.1		FACU	Total Cover of Bryophytes 10
9.	Sanguisorba officinalis	0.1		FACW	
10.	Polemonium acutiflorum	0.1	_	FAC	Hydrophytic
	Total Cover:	114	_		Vegetation
	50% of Total Cover:	57.2 209	% of Total Cover:	22.88	Present? Yes No
Rem	arks: Delphnium glauca - trace				

	Matrix			Red	ox Featı			_	
(inches) Color (m	noist)	%	Color (m	oist)	%	Type 1	Loc ²	Texture	Remarks
0-4 5YR	2.5/1	100						Fibric Organics	
4-12 5Y	4/3	90	2.5YR	4/8	10	C	PL	Silt Loam	
									-
									_
								·	
				<u>.</u>					
¹ Type: C=Concentration. D	D=Depletior	n. RM=Redu	uced Matrix	² Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
ydric Soil Indicators:			Indicate	ors for Pro	oblemati	c Hydric S	oils: ³		
Histosol or Histel (A1)				a Color Ch		4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedon (A2)			Alask	a Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen Sulfide (A4)			Alask	a Redox W	/ith 2.5Y I	Hue		Other (Explain in Rema	rks)
Thick Dark Surface (A1	2)		_						
Alaska Gleyed (A13)						tic vegetation		mary indicator of wetland	hydrology,
🖌 Alaska Redox (A14)						•	•	esent	
Alaska Gleyed Pores (A	15)		⁴ Give d	etails of co	olor chang	e in Remarl	<s< td=""><td></td><td></td></s<>		
estrictive Layer (if present)):								
, , , ,									
Type:								Hvdric Soil Presen	t? Yes 🖲 No 🔾
Type: Depth (inches): lemarks: ubangular cobbles at 10 inc	ches - 50%							Hydric Soil Presen	t? Yes ● No ○
Depth (inches):	ches - 50%							Hydric Soil Presen	t? Yes 🖲 No 🔾
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riparian wetland, sediment deposits on substrates.