## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	Denali Bo	Denali Borough Sampling Date: 05-Aug-13					
Applic	ant/Owner: Alaska Energy Authority			Sampling Point: SW13_T201_10				
	gator(s): SLI, EAC		Landform (hill	andform (hillside, terrace, hummocks etc.): Footslope				
	relief (concave, convex, none): hummocky		Slope: 1.7 % / 1.0 ° Elevation: 669					
	gion : Interior Alaska Mountains		63.360150576	_				
		Lat	03.300130370	)				
	ap Unit Name:		- \	No ○	NWI classification: PSS1B			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐  MARY OF FINDINGS - Attach site map sho	significantly naturally prowing sam	/ disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○  ded, explain any answers in Remarks.)  s, transects, important features, etc.			
	(a)		Is	Is the Sampled Area				
			within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes   No	<i></i>						
	erks: undisturbed forest adjacent to GVEA ROW.  ETATION -Use scientific names of plants. L			•	Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
	Picea glauca	15	<b>V</b>	FACU	That are OBL, FACW, or FAC:  6 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 7 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 85.7% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	r: <u>15</u>			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	7.5 20%	of Total Cover	3	OBL Species 7 x 1 = 7			
1	Dicea glauca	5		FACU	FACW Species 22 x 2 = 44			
1. 2.	Picea glauca  Betula glandulosa		<b>✓</b>	FAC	FAC Species 78.2 x 3 = 234.6			
3.	Vaccinium vitis-idaea	- <del>- 20</del> - 5		FAC	FACU Species 20 x 4 = 80			
4.	Vaccinium vitis-idaea  Vaccinium uliginosum	- <u> </u>	<b>~</b>	FAC	UPL Species 0 x 5 = 0			
5.	Empetrum nigrum	20	<b>✓</b>	FAC				
6.	Ledum decumbens	7		FACW	Column Totals: <u>127.2</u> (A) <u>365.6</u> (B)			
	Salix barclayi	7		FAC	Prevalence Index = B/A =			
8.	Salix pulchra	3		FACW	Hydrophytic Vegetation Indicators:			
9.	Production of the control of the con				✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
He	Total Cover: 50% of Total Cover:		of Total Cove	: 18.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Petasites frigidus	7	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Calamagrostis canadensis			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Arctagrostis latifolia		<b>✓</b>	FACW	be present, unless disturbed or problematic.			
4.	Carex aquatilis	7	<b>✓</b>	OBL	Plot cize (radius or longth y width)			
5.	Polemonium acutiflorum	0.1		FAC	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes			
6.	Equisetum arvense	0.1		FAC	(Where applicable)			
7.					% Bare Ground7			
8.		0			Total Cover of Bryophytes 85			
9.								
10.		0			Hydrophytic			
	<b>Total Cove</b> r 50% of Total Cover:		of Total Cover	4.04	Vegetation Present? Yes ● No ○			

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SOIL Sampling Point: SW13 T201 10

JOIL									Samping	Point: 3W13_12U1_1U		
	ion: (Describe to	the depth n	eeded to doc	ument the in		firm the abs		ators)				
Depth (inches)	Color (moist)		%	Color (n	olor (moist)		Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-7	5YR	3/2	100	Color (II	ioistj	<u>%</u>	Турс	LUC	Fibric Organics			
7-9		2.5/1	100						Hemic Organics			
-				5)/5								
9-13	N	3/1	90	5YR	5/6	10	C	PL	Fine Sandy Clay Loam			
	-					-			-			
						-						
¹Type: C=Cor	ncentration. D:	=Depletior	RM=Redu	ced Matrix	<sup>2</sup> Location	PL=Pore	E Lining. RC	=Root Char	nnel. M=Matrix			
Hydric Coil T	ndicators			Indicat	ors for Pro	hlomatic	Hydric Sc	nile: <sup>3</sup>				
Hydric Soil I					ka Color Ch		4		Alaska Claused With aut III.	- FV D11		
	r Histel (A1)				ka Color Ch ka Alpine sv		-	V	Alaska Gleyed Without Hu Underlying Layer	e SY or Redder		
✓ Histic Epip					ka Alpine sv ka Redox W				Other (Explain in Remarks	5)		
	Sulfide (A4)	`		Alds	Ka Kedox W	101 2.51 1	iuc		(=	,		
Alaska Gle	Surface (A12)	)							nary indicator of wetland hy	drology,		
✓ Alaska Red				and an	appropriate	landscap	e position r	nust be pre	esent			
	eyed Pores (A1	5)		4 Give	details of co	or change	e in Remark	S				
Restrictive Laye												
	ve layer (froze	n)							Hydric Soil Present?	Yes  No		
Depth (inch	ies): 13											
Remarks:												
HYDROLO												
Wetland Hydi	rology Indica	itors:							Secondary Indic	ators (two or more are required)		
Primary Indica	tors (any one	is sufficier	t)						Water Stain	ed Leaves (B9)		
Surface W	/ater (A1)			In	undation Vis	sible on A	erial Image	ry (B7)	7) Drainage Patterns (B10)			
✓ High Water Table (A2)       ☐ Sparsely Vegetated Concave Surface (B8)       ☐ Oxidized Rhizospheres along Living								izospheres along Living Roots (C3)				
✓ Saturation	Saturation (A3) Marl Deposits (B15)							Presence of Reduced Iron (C4)				
Water Ma	Water Marks (B1) Hydrogen Sulfide Odor (C1)								Salt Deposits (C5)			
Sediment	Deposits (B2)			☐ Di	y-Season W	ater Table	e (C2)		Stunted or Stressed Plants (D1)			
Drift Depo	osits (B3)			□ Ot	her (Explair	in Rema	rks)		Geomorphic Position (D2)			
Algal Mat	or Crust (B4)								✓ Shallow Aqu	uitard (D3)		
Iron Depo	osits (B5)								Microtopogi	raphic Relief (D4)		
Surface So	oil Cracks (B6)	l							✓ FAC-neutral	Test (D5)		
Field Observa	ations:											
Surface Water	r Present?	Yes	No ●	D	epth (inches	):						
Water Table P	resent?	Yes 🤄	No 🔾	D	epth (inches	): 7		Wetlan	nd Hydrology Present	:? Yes		
Saturation Pre		Vec (	No O	D	epth (inches	١. ٦						
(includes capi	llary fringe)	103	110 0		epui (inches	). Z						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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