## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 10-Jul-13
Applicant/Owner: Alaska Energy Authority	Sampling Point:SW13_T184_02
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky	Slope: % / 21.5 ° Elevation: 665
Subregion : Interior Alaska Mountains Lat.:	62.8472639319 Long.: -148.576712488 Datum: NAD83
Soil Map Unit Name:	NWI classification: Upland
Are Vegetation, Soil, or Hydrology naturally	ar? Yes No (If no, explain in Remarks.) htty disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) problematic? (If needed, explain any answers in Remarks.) umpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes • No •         Hydric Soil Present?       Yes • No •	Is the Sampled Area within a Wetland? Yes $\bigcirc$ No $\bigcirc$
Wetland Hydrology Present? Yes $\bigcirc$ No $oldsymbol{igodol}$	

Remarks:

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

		۸ha	olute	Dominant	Indicator	Dominance Test worksheet:
			Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca		5		FACU	That are OBL, FACW, or FAC: (A)
2.	Betula neoalaskana		35	$\checkmark$	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
3.	Alnus viridis		2		FAC	Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
5.		_	0			Prevalence Index worksheet:
	Total Cove	er: _	42			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	21	_ 20%	of Total Cover:	8.4	OBL Species x 1 =
1.	Rosa acicularis		10		FACU	FACW Species 0 x 2 = 0
2.	Alnus viridis		20	$\checkmark$	FAC	FAC Species <u>117</u> x 3 = <u>351</u>
3.	Ribes triste		10		FAC	FACU Species <u>67</u> x 4 = <u>268</u>
4.	Vaccinium vitis-idaea		20	$\checkmark$	FAC	UPL Species x 5 =
5.	Linnaea borealis		15	$\checkmark$	FACU	Column Totals: 184 (A) 619 (B)
6.	-		0			
			0			Prevalence Index = B/A = <u>3.364</u>
			0			Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
		_	0			Prevalence Index is $\leq 3.0$
	Total Cove	er:	75			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum 50% of Total Cover:	37.5	20%	of Total Cover:	15	Remarks or on a separate sheet)
1.	Cornus suecica		35	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Equisetum sylvaticum		20	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Mertensia paniculata		2		FACU	be present, unless disturbed or problematic.
4.	Calamagrostis canadensis		10		FAC	Plot size (radius, or length x width)10m
5.		_	0			% Cover of Wetland Bryophytes 0
6.		_	0			(Where applicable)
7.		_	0			% Bare Ground
8.		_	0			Total Cover of Bryophytes50
			0			
		_	0			Hydrophytic
	Total Cove	er:	67			Vegetation
	50% of Total Cover:	33.5	20%	of Total Cover:	13.4	Present? Yes $\bullet$ No $\bigcirc$
Rem	arks:					

Depth		Matrix		nent the indicator or cor <b>Rec</b>	lox Featu		itors)	_	
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5			100					Fibric Organics	
5-10	2.5Y	3/3	100					Coarse Sandy Silt	
10-11	10YR	3/2				·		Sapric Organics	With some coarse sand
11-14	2.5Y	3/3						Gravelly Silt	-
						· ·			
						· ·			
	centration D-	-Depletion	PM-Peduc	ed Matrix <sup>2</sup> Location	. DI – Pore	Lining PC	-Poot Cha	annel M-Matrix	
Hydric Soil In		-Depiedon.	KM-Reduct	Indicators for Pr		-			
Histosol or				Alaska Color Ch		4		Alaska Gleyed Without H	due 5Y or Redder
Histosof of Histosof of	• •			Alaska Alpine s		,		Underlying Layer	
Hydrogen S				Alaska Redox V	•	,		Other (Explain in Remai	·ks)
	Surface (A12	)							
Alaska Gley	•			<sup>3</sup> One indicator of and an appropriat				mary indicator of wetland	hydrology,
Alaska Red	ox (A14)				e ianuscap	e posicion n	iust be pre	esent	
Alaska Gley	ed Pores (A1	5)		<sup>4</sup> Give details of co	olor change	e in Remarks	5		
Restrictive Laye	r (if present):								
Type:								Hydric Soil Presen	t? Yes 🔾 No 🖲
Depth (inch	es):								
Remarks:									
HYDROLO	GY								
Wetland Hydr		tors:							
Primary Indicat	ors (any one							Secondary Inc	icators (two or more are required)
		s sufficient)						Water Sta	ined Leaves (B9)
Surface Wa	( )	s sufficient)		Inundation V		-		Water Sta	ined Leaves (B9) Patterns (B10)
High Wate	r Table (A2)	is sufficient)		Sparsely Veg	etated Con	-		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
High Wate	r Table (A2) (A3)	s sufficient)		Sparsely Vege	etated Con 5 (B15)	cave Surfac		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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