WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borou	gh Sampling Date	e: 05-Aug-12
Applicant/Owner: Alaska Energy Authority		S	ampling Point:	SW12_T34_01
Investigator(s): SLI, KMK	Landform (hill	side, terrace, hummocks et	c.): Ridgetop	
Local relief (concave, convex, none): convex	Slope:	% / 5.4 ° Elevation:	126	
Subregion : Southcentral Alaska	Lat.: 62.898133182	Long.: -148.6	94028992	Datum: NAD83
Soil Map Unit Name:		NWI	classification: Upla	nd
Are Vegetation , Soil , or Hydrology nati	nificantly disturbed? urally problematic?	Are "Normal Circumsta (If needed, explain any	answers in Remarks	,
SUMMARY OF FINDINGS - Attach site map showin	ig sampling point	locations, transects, in	mportant features	s, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No	ls	the Sampled Area		
Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●	wi	thin a Wetland?	Yes 🔿 No 🖲	
Remarks:				

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

		۵he	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.			0			
2.	- 		0			Total Number of Dominant Species Across All Strata: 5 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)
5.			0			Prevalence Index worksheet:
	Total Cover	: _	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =
1.	Salix rotundifolia		10	\checkmark	FAC	FACW Species <u>0</u> x 2 = <u>0</u>
2.	Diapensia lapponica		10	\checkmark	UPL	FAC Species 22 x 3 = <u>66</u>
3.	Cassiope tetragona		10	\checkmark	FACU	FACU Species <u>14</u> x 4 = <u>56</u>
4.	Vaccinium vitis-idaea		2		FAC	UPL Species <u>15</u> x 5 = <u>75</u>
5.			0			Column Totals: <u>51</u> (A) <u>197</u> (B)
6.			0			Prevalence Index = B/A = 3.863
7.			0			Prevalence Index = B/A = <u>3.863</u>
			0			Hydrophytic Vegetation Indicators:
			0			Dominance Test is > 50%
			0			Prevalence Index is ≤3.0
	Total Cover	:	32			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	16	_ 20%	of Total Cover:	6.4	Remarks or on a separate sheet)
1.	Carex microchaeta		7	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Campanula lasiocarpa		1		UPL	¹ Indicators of hydric soil and wetland hydrology must
3.	Antennaria rosea		2		UPL	be present, unless disturbed or problematic.
4.	Anthoxanthum monticola ssp. alpinum		3	\checkmark	UPL	
5.	Lloydia serotina		1		FACU	Plot size (radius, or length x width) <u>10m</u>
6.	Artemisia frigida		2		UPL	% Cover of Wetland Bryophytes (Where applicable)
7.	Gentiana glauca		2		FAC	% Bare Ground _30
8.	Luzula nivalis		1		FAC	Total Cover of Bryophytes 15
9.			0			
10.			0			Hydrophytic
	Total Cover	:	19			Vegetation
	50% of Total Cover:	9.5	20%	of Total Cover:	3.8	Present? Yes \bigcirc No \bigcirc
Dom	arke: trace Actor albinus pedicularis en anomeno e		un dia	h liekene		

Remarks: trace Aster alpinus, pedicularis sp, anemone sp. Abundant lichens.

(inches)									-	
	Color (m	oist)	%	Color (mo	oist)	%	Type ¹	<u>Loc</u> ²	Texture	Remarks
05									Silt	eolian silt 50%, hemic 50%
.5-1.5	5YR	3/3	100	,		-			Sandy Loam	
1.5-12	5YR	3/4	80						Coarse Sandy Loam	20% subangular gravel-cobble
12-18	10YR	3/4	95						Fine Sandy Loam	5% subangular gravels
			,						-	
										-
¹ Type: C=Con	centration. D	=Depletion.	. RM=Redu	ced Matrix	² Location:	PL=Pore	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:			Indicato	rs for Pro	blematic	: Hydric S	oils ³		
Histosol or					a Color Cha		4] Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipe	. ,				a Alpine sw		,		Underlying Layer	
Hydrogen S				🗌 Alaska	a Redox Wi	ith 2.5Y H	lue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12	<u>?)</u>		3 One inc	"	فليط محددات		· · · · · · · · · · · · · · · ·	in directory of wotland h	
Alaska Gley				and an a	appropriate	landscap	e position	on, one prir must be pre	nary indicator of wetland h esent	hydrology,
Alaska Redo	· · /			4 Give de	etails of col	or change	in Remar	ka		
Alaska Giey	ed Pores (A)	.5)		0.10 20		or change	: In Nome.	N3		
Restrictive Layer	r (if present)	:								\sim
Туре:	-								Hydric Soil Present	:? Yes 🔾 No 🖲
Depth (inche	es):									
Remarks:										
Remarks: no hydric soil ind	dicators									
	dicators									
	dicators									
no hydric soil ind										
ho hydric soil ind	GY									
ho hydric soil ind HYDROLOC Wetland Hydro	GY ology Indic									icators (two or more are required)
TYDROLOC Wetland Hydro Primary Indicat	GY ology Indic cors (any one)		- dation Vie	ible on A			Water Stai	ined Leaves (B9)
TYDROLOC Wetland Hydro Primary Indicate	GY ology Indic ors (any one ater (A1)		.)		ndation Vis		-		Water Stai	ined Leaves (B9) Patterns (B10)
HYDROLOO HYDROLOO Wetland Hydra Primary Indicate Surface Wa High Water	GY ology Indic ors (any one ater (A1) r Table (A2)		.)	🗌 Spa	rsely Vege	tated Con	-		Water Stai	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
HYDROLOO HYDROLOO Wetland Hydra Primary Indicate Surface Wa High Water Saturation	GY ology Indic cors (any one ater (A1) r Table (A2) (A3)		.)	Spa	rsely Vege I Deposits	tated Con (B15)	cave Surfa		Water Stai	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
HYDROLOO HYDROLOO Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Marl	GY ology Indic tors (any one ater (A1) r Table (A2) (A3) ks (B1)	is sufficient	.)	Spa	rsely Vegel I Deposits Irogen Sulf	tated Con (B15) ide Odor	cave Surfa (C1)		Water Stai	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
HYDROLOO HYDROLOO Wetland Hydro Primary Indicate Surface Wa High Water Saturation Water Mari Sediment I	GY ology Indic cors (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	is sufficient	.)	Spa	rsely Vegei I Deposits Irogen Sulfi -Season W	tated Con (B15) ide Odor (ater Table	cave Surfa (C1) e (C2)		Water Stai	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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Remarks:

no wetland hydrology indicators