## WETLAND DETERMINATION DATA FORM - Alaska Region

. 0,000	/Site: Susitna-Watana Hydroe	electric Project		orough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13
Applica	ant/Owner: Alaska Energy Auth	ority				Sampling Point: SW13_T135_04
nvesti	gator(s): JER		I	Landform (hills	side, terrac	e, hummocks etc.): Undulating
Local r	elief (concave, convex, none):			Slope: 8.7	% / 5.0	° Elevation: 1026
Subrec	ion: Southcentral Alaska		Lat.: 6	52.888107657		Long.: -148.897506356 Datum: WGS84
_	p Unit Name:		_			NWI classification: PSS1B
	matic/hydrologic conditions on the	site typical for this t	mo of year?	) Vas	● No ○	(If no, explain in Remarks.)
				disturbed?		ormal Circumstances" present? Yes  No
		, ,, ,	naturally pro			eded, explain any answers in Remarks.)
		, ,,			`	, ,
SUMI	MARY OF FINDINGS - Atta	ach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present?	Yes  No	)	_		
	Hydric Soil Present?	Yes   No	)			pled Area
	Wetland Hydrology Present?	Yes   No	)	wi	thin a W	etland? Yes   No
Dom					la la casa a const	
Rem	table	ered rock, water in ro	cky depress	sions, water ta	ble somewi	hat higher than typical but signs of normal high water
<b>VEGE</b>	TATION - Use scientific na	mes of plants. L	ist all spe	cies in the	olot.	
		· · · · · · · · · · · · · · · · · · ·		·	<u> </u>	Dominance Test worksheet:
Tre	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: 4 (A)
2.			0			Total Number of Dominant Species Across All Strata: 6 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 66.7% (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover	:0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50	0% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0
1	Vaccinium uliginosum		25	<b>✓</b>	FAC	FACW Species 27 x 2 = 54
2.	Empetrum nigrum		30	<u> </u>	FAC	FAC Species 76 x 3 = 228
3.	Salix fuscescens		15		FACW	FACU Species 15 x 4 = 60
4.	Vaccinium vitis-idaea		5		FAC	UPL Species 1 x 5 = 5
5.	Salix pulchra		5		FACW	Column Totals: 119 (A) 347 (B
6.	Betula nana		2		FAC	
7.	Cassiope tetragona		2		FACU	Prevalence Index = B/A = 2.916
8.	Spiraea stevenii		2		FACU	Hydrophytic Vegetation Indicators:
9.	Andromeda polifolia		2		FACW	✓ Dominance Test is > 50%
10.	Loiseleuria procumbens		2		FACU	✓ Prevalence Index is ≤3.0
		Total Cover				Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	<b>b Stratum</b> 5	0% of Total Cover:	45 20%	of Total Cover	18	Remarks or on a separate sheet)
1.	Viola epipsila		1		FACW	Problematic Hydrophytic Vegetation (Explain)
2.	Arnica lessingii		1		UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Anemone narcissiflora		2		FACU	be present, unless disturbed or problematic.
4.	Carex bigelowii		12	<b>✓</b>	FAC	Plot size (radius, or length x width)
5.	Artemisia norvegica		3	<b>✓</b>	FACU	% Cover of Wetland Bryophytes
6.	Rubus chamaemorus		3	<b>✓</b>	FACW	(Where applicable)
7.	Arctagrostis latifolia				FACU	% Bare Ground <u>0.1</u>
8.	Pedicularis capitata	la taccas		<b>✓</b>	FACU	Total Cover of Bryophytes 35
9.	Anthoxanthum monticola ssp. a	ıpınum			FACU	
10.	Festuca altaica	Total Cover			FAC	Hydrophytic Vegetation
	50			of Total Cover:	5.8	Present? Yes   No

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SOIL Sampling Point: SW13\_T135\_04

Depth -		Matrix		Re	dox Featu	res			
(inches)	Color (mo	oist)	%	Color (moist)	%	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks
0-2			100					Fibric Organics	
2-7			100					Hemic Organics	w some silt and sand.
7-13	10YR	3/4	100					Sand	org inclsn and gravels throughout.
13-17	10YR	3/3	100					Sand	w some gravel
									_
								-	_
Type: C=Conc	entration. D	=Depletion	. RM=Reduced	d Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. RO	=Root Cha	nnel. M=Matrix	
lydric Soil Inc	dicators:			Indicators for P	roblematic	c Hydric S	oils: <sup>3</sup>		
Histosol or H			ſ	Alaska Color C		4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epiped	` '		Ī	Alaska Alpine s	• .	•	_	Underlying Layer	The 51 of Redder
Hydrogen Si	` '		ſ	Alaska Redox	•	•	<b>✓</b>	Other (Explain in Rem	arks)
¬ ′ ·	Surface (A12	)							
Alaska Gleye	•	,						nary indicator of wetland	d hydrology,
Alaska Redo	, ,			and an appropria	te ianuscap	e position i	nust be pre	esent	
Alaska Gleye	ed Pores (A1	5)		<sup>4</sup> Give details of c	olor chang	e in Remark	S		
estrictive Layer	(if present):								
Type:								Hydric Soil Prese	nt? Yes 💿 No 🔾
Type: rock								riyanc bon i rese	
Depth (inchesemarks:	should be sat	underlying	g mineral soils	have chroma >2.				e organics have a wavy	layering to them. marginal organic strates and high elevation below
Depth (incher emarks: eems like area s epth for histic e vegetated rock a	should be sate pipedon, but and scree as	underlying	g mineral soils	have chroma >2.				e organics have a wavy	layering to them. marginal organic
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