## WETLAND DETERMINATION DATA FORM - Alaska Region

•	et/Site: Susitna-Watana Hy	droelectric Project		Boroug	h/City:	Matanusk	ca-Susitna Borough Sampling Date: 07-Aug-13			
	ant/Owner: Alaska Energy	Authority					Sampling Point: SW13_T196_04			
nvesti	igator(s): SLI, EAC			Landf	Landform (hillside, terrace, hummocks etc.): Saddle					
_ocal	relief (concave, convex, none	e): concave		Slope	Slope: 5.2 % / 3.0 ° Elevation: 874					
Subre	gion: Interior Alaska Mounta	ains	Lat.	63.30	3770065	5	Long.:148.211859226			
Soil Ma	ap Unit Name:						NWI classification: Upland			
Are \		, or Hydrology  , or Hydrology	significa naturally wing s	intly distu y problem	irbed? natic?	(If nee	(If no, explain in Remarks.)  lormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
Rem	Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present? narks: subalpine dwarf shrub	Yes O No (	•			the Sam thin a W	pled Area /etland? Yes ○ No ●			
/EGI	ETATION - Use scientifi	c names of plants. L				<u> </u>	Dominance Test worksheet:			
Tre	ee Stratum		Absolu % Cov		minant ecies?	Indicator Status	Number of Dominant Species			
1.				0			That are OBL, FACW, or FAC:3(A)			
2.				0			Total Number of Dominant Species Across All Strata: 7 (B)			
3.				0						
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 42.9% (A/B)			
5.				0			Prevalence Index worksheet:			
		Total Cover	: <u> </u>				Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum	50% of Total Cover:	OBL Species $0 \times 1 = 0$							
				20	<b>✓</b>	FACU	FACW Species 10 x 2 = 20			
1. 2.	Arctostaphylos alpina Vaccinium vitis-idaea			.5	<b>✓</b>	FAC	FAC Species 51.1 x 3 = 153.3			
3.	Ledum decumbens			.0		FACW	FACU Species 38.1 x 4 = 152.4			
4.	Empetrum nigrum			.5	<b>✓</b>	FAC	UPL Species 0.1 x 5 = 0.500			
5.	Loiseleuria procumbens		_	.5	<b>✓</b>	FACU				
6.	Vaccinium uliginosum			.0		FAC	Column Totals: <u>99.3</u> (A) <u>326.2</u> (B)			
	Betula glandulosa			.0		FAC	Prevalence Index = B/A = 3.285			
	Dioca glavica			<u>—</u> 1		FACU	Hydrophytic Vegetation Indicators:			
9.				0			Dominance Test is > 50%			
10.				0			Prevalence Index is ≤3.0			
Hei	rb Stratum	<b>Total Cover</b> 50% of Total Cover:			tal Cover:	: 19.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Anthoxanthum monticola ss	sp. alpinum	:	1	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Anemone parviflora		0	.1		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Cornus suecica		0	.1		FAC	be present, unless disturbed or problematic.			
4.	Spinulum annotinum		· ·	1	<b>✓</b>	FACU	Plot size (radius, or length x width) 10m			
5.	Carex bigelowii			1	$\checkmark$	FAC	% Cover of Wetland Bryophytes			
6.	Campanula lasiocarpa			.1		UPL	(Where applicable)			
7				0			% Bare Ground35			
				0			Total Cover of Bryophytes			
8.			(	0						
8. 9.				_						
8. 9.				0			Hydrophytic			
8. 9.			- ( 3.3	3	ral Covers	0.66	Hydrophytic Vegetation Present?  Yes ○ No ●			

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SOIL Sampling Point: SW13\_T196\_04

									10mc. 51115_1150_04		
Profile Description			eded to docu	ment the indicator or co			ators)				
Depth (inches)	Matrix Color (moist)			Color (moist)	lox Features % Tv	Type <sup>1</sup>		- Texture	Remarks		
0-6	7.5YR	2.5/2	100	Coloi (moics,		Турс	LUL	Sapric Organics	thin burned layer on bottom of horizon		
6-7	7.5YR	6/2	100					Very Fine Sandy Loam	eluviation		
7-8	5YR	3/4	100	-				Very Fine Sandy Loam	iron illuviation		
8-15	5YR	2.5/2	100					Loam w/lots of org. matter	Buried burned organic hor charcoal throu		
	3110	2.3/2							Daried Burned Organic Nor. Charcoal allou		
				-							
¹Type: C=Con	centration. D	=Depletion.	RM=Reduc	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA	4) <sup>4</sup>		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alaska Alpine s	•	•		Underlying Layer			
Hydrogen 9	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remark	s)		
	Surface (A12	2)		<sup>3</sup> One indicator of	hydronhy	tic venetatio	n one nrin	mary indicator of wetland h	vdrology		
Alaska Gley				and an appropriat					yai ology,		
Alaska Red	` '	E)		4 Give details of co	olor chang	e in Remark	is .				
	ed Pores (A1										
Restrictive Laye	r (if present):										
Type:	oc).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil ir	dicators										
									· ·		
HYDROLO	ЭΥ										
Wetland Hydr	ology Indic	ators:						Secondary India	cators (two or more are required)		
Primary Indicat		is sufficient	)					Water Stained Leaves (B9)			
Surface W	` '			Inundation V		_	, , ,	☐ Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)		
Water Mar				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
Drift Depo				U Other (Explain	ın ın Rema	irks)			c Position (D2)		
Iron Depos	or Crust (B4)							☐ Shallow Aq			
	il Cracks (B6)							FAC-neutra	raphic Relief (D4)		
Field Observa		,					1		rest (D3)		
Surface Water		Yes C	No •	Depth (inche	es):						
Water Table Pi			No •	. ,	•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pres				Depth (inche	es):		Wedia	na riyarology r resen	res o No o		
(includes capill		Yes $\cup$	No 💿	Depth (inche	es):						
Describe Record	led Data (stre	eam gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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