WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydr	oelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-13		
Applica	ant/Owner: Alaska Energy Au	uthority				Sampling Point: SW13_T113_03		
nvesti	gator(s): WAD, RWM		L	_andform (hil	lside, terrac	e, hummocks etc.): Hillside		
	relief (concave, convex, none):	planar		Slope: 0.0				
	· ·	<u> </u>						
_	gion : Interior Alaska Mountain	<u>s</u>	Lat	32.772206420	<u> </u>			
	ap Unit Name:				<u> </u>	NWI classification: Upland		
Are V	matic/hydrologic conditions on to degree the conditions on the conditions of the conditions on the conditions of the conditions on the con	, or Hydrology	significantly naturally pro	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Iorded, explain any answers in Remarks.) Iorded, explain any in Remarks.) Iorded, explain any in Remarks.		
	Hydrophytic Vegetation Preser	nt? Yes 💿 No 🤇			41	I. I.A.		
	Hydric Soil Present?	Yes O No 🤄		Is the Sampled Area				
	Wetland Hydrology Present?	Yes O No 🤄		within a Wetland? Yes ○ No •				
	narks:							
VEGE	ETATION - Use scientific	names of plants. L	ist all spe	cies in the	plot.			
			Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species		
1.	e Stratum		% Cover	Species?	Status	That are OBL, FACW, or FAC:5 (A)		
						Total Number of Dominant		
2.						Species Across All Strata: 6 (B)		
3.						Percent of dominant Species That Are OBL, FACW, or FAC: 83,3% (A/B)		
4.			0			That Are OBL, FACW, or FAC: 83.3% (A/B)		
5.		Tabal Cassa				Prevalence Index worksheet:		
	Pro (Ob. 10 Ob. 1)	Total Cover		of Total Cover		Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species <u>0.1</u> x 1 = <u>0.1</u>		
1.	Vaccinium uliginosum		15	✓	FAC	FACW Species 1 x 2 = 2		
2.	Vaccinium vitis-idaea		5		FAC	FAC Species <u>73.2</u> x 3 = <u>219.6</u>		
3.	Empetrum nigrum		25	✓	FAC	FACU Species 23.1 x 4 = 92.40		
4.	Cassiope tetragona		_20_	✓	FACU	UPL Species 10 x 5 = 50		
5.	Dryas octopetala		10		UPL	Column Totals: <u>107.4</u> (A) <u>364.1</u> (B)		
6.			0					
7.			0			Prevalence Index = B/A = 3.390		
8.			0			Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
10.			0			Prevalence Index is ≤3.0		
Her	b Stratum	Total Cover 50% of Total Cover:			r: <u>15</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Festuca altaica		15	~	FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Artemisia norvegica		3		FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Aconitum delphinifolium		3		FAC	be present, unless disturbed or problematic.		
4.	Gentianella propinqua		0.1		FACU	Plot size (radius, or length x width)		
5.	Bistorta vivipara		0.1		FAC			
6.	Poa arctica		0.1		FAC	(Where applicable)		
7.	Juncus arcticus		0.1		OBL	% Bare Ground		
8.	Dodecatheon pulchellum		1		FACW	Total Cover of Bryophytes 30		
9.	Carex microchaeta		5		FAC			
10.	Carex bigelowii		5	✓	FAC	Hydrophytic		
		Total Cover				Vegetation Veg Ala		
		50% of Total Cover:	16.2 20%	of Total Cover	6.48_	Present? Yes 🗢 NO 🔾		
6. 7. 8. 9.	Poa arctica Juncus arcticus Dodecatheon pulchellum Carex microchaeta	Total Cover	0.1 0.1 1 5 5 32.4	☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	FAC OBL FACW FAC FAC	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T113_03

Depth —	Matrix	ea to accumer	nt the indicator or co	dox Featur		ators)	_	
(inches) Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1		100					Fibric Organics	
1-5		100					Hemic Organics	
5-10 7.5YR	3/3	70	5YR 3/3	30		М	Loamy Sand	mostly rocks with a little mineral clinging on
¹ Type: C=Concentration.	D=Depletion. R				_		annel. M=Matrix	
Hydric Soil Indicators:		I	ndicators for P		4	oils: ¯	7	
Histosol or Histel (A1)		L	Alaska Color C				Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
Histic Epipedon (A2)		L	_ Alaska Alpine :	•	•		, , ,	
Hydrogen Sulfide (A4)		L	Alaska Redox '	With 2.5Y H	ue		Other (Explain in Remark	(S)
Thick Dark Surface (A	12)	:	3 One indicator of	f bydrophyti	c voqotatio	n one prin	mary indicator of wetland h	nydrology.
Alaska Gleyed (A13)			and an appropria					iyarology,
Alaska Redox (A14)			⁴ Give details of o	olor change	in Demark			
Alaska Gleyed Pores (A	-		Give details of c	.olor change	III Kelliark	3		
Restrictive Layer (if present Type:	t):						Hydric Soil Present	? Yes ○ No •
Depth (inches):							nyunc son Present	r res 🔾 NO 🕾
IYDROLOGY								
Wetland Hydrology Indi								cators (two or more are required)
Primary Indicators (any or	e is sufficient)							ned Leaves (B9)
Surface Water (A1)			Inundation \		_		☐ Drainage F	Patterns (B10)
High Water Table (A2)			Sparsely Veg		cave Surfac	e (B8)		hizospheres along Living Roots (C3)
Saturation (A3)			Marl Deposit	s (B15)				of Reduced Iron (C4)
Water Marks (B1)			Hydrogen Su	-			Salt Depos	
Sediment Deposits (B	2)		Dry-Season					Stressed Plants (D1)
Drift Deposits (B3)			U Other (Expla	in in Remar	ks)			ic Position (D2)
Algal Mat or Crust (B4	1)							quitard (D3)
Iron Deposits (B5)							_	graphic Relief (D4)
Surface Soil Cracks (B	6)					1	☐ FAC-neutra	al Test (D5)
Field Observations:	· ·	🕥						
			Depth (inche	es):				
Surface Water Present?	V ()	No 💿	Depth (inch	es):		Wetla	nd Hydrology Presen	it? Yes O No 💿
Surface Water Present? Water Table Present?	Yes ∪			ac).				
	Yes O	No •	Depth (inch					
Water Table Present? Saturation Present?	Yes O				ction) if ava	ilable:		
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (s	Yes O				ction) if ava	iilable:		
Water Table Present? Saturation Present? (includes capillary fringe)	Yes C				ction) if ava	iilable:		

U.S. Army Corps of Engineers Alaska Version 2.0