WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hyd	roelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Jun-1	12		
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW12_T24_	_05		
nvesti	gator(s): SLI, LMF			Landform (hillside, terrace, hummocks etc.): Plateau					
ocal r	relief (concave, convex, none):	hummocky		Slope: 3.5	Slope: 3.5 % / 2.0 ° Elevation: 797				
Subrec	gion: Copper River Basin		 82	Long.: -147.400849976 Datum: WGS84					
	ap Unit Name:		_	62.66165990	-	NWI classification: PSS1/EM1E			
	-	the site tunical for t	hio timo of voo	r) Vac	● No ○	(If no, explain in Remarks.)			
Are V Are V	matic/hydrologic conditions on /egetation , Soil , /egetation , Soil ,	, or Hydrology , or Hydrology	significant naturally p	ly disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Ceded, explain any answers in Remarks.) No the thick the)		
			lo O	npinig point	10000110110	s, transcoto, important roataros, etc.			
	Hydrophytic Vegetation Prese			Is the Sampled Area					
	Hydric Soil Present?		lo O	within a Wetland? Yes ● No ○					
	Wetland Hydrology Present?	Yes	lo O	"	4 **	ottaria i			
	12in bgs.					cks. hummocks pronounced (up to 1m tall), and fro	zen at		
EGE	TATION - Use scientific	names of plant	s. List all sp	ecies in the	piot.				
			Absolute		Indicator	Dominance Test worksheet:			
	e Stratum_		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3	(A)		
1.				. 📙		Total Number of Dominant			
2.						Species Across All Strata: 3	(B)		
3.			_	. 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0%	(A/D)		
4. 5.						That Are OBL, FACW, or FAC: 100.0%	(A/B)		
5.		Tatal C		. \square		Prevalence Index worksheet:			
	Part (Charles and Charles	Total C		- 6 of Total Cover	. 0	Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	020%	o or rotal cover	:0	OBL Species <u>50</u> x 1 = <u>50</u>	ı		
1.	Picea glauca		3	_	FACU	FACW Species 24 x 2 = 48			
2.	Betula nana			_	FAC	FAC Species 33 x 3 = 99	1		
3.	Myrica gale		5	. 🖳	OBL	FACU Species 3.1 x 4 = 12.4			
4.	Ledum groenlandicum			. 📙	FAC	UPL Species 0 x 5 = 0			
5.	Andromeda polifolia (CRB)		3		OBL	Column Totals: <u>110.1</u> (A) <u>209.4</u>	(B)		
6.	Salix polaris			. 📙	FACW	Prevalence Index = B/A = 1.902			
7.	Salix reticulata		3	. 📙	FAC	11.502			
8.	Salix pulchra				FACW	Hydrophytic Vegetation Indicators:			
	Picea mariana				FACW	✓ Dominance Test is > 50%			
10.				. \square		✓ Prevalence Index is ≤3.0			
Her	b Stratum	Total C 50% of Total Cover		% of Total Cove	r: <u>11.8</u>	Morphological Adaptations ¹ (Provide supporting da Remarks or on a separate sheet)	ata in		
	Bistorta vivipara		2	. 📙	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.				. 💆	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.				. 📙	OBL	be present, unless disturbed or problematic.			
4.				. 📙	FACW	Plot size (radius, or length x width) 10m	_		
5.					FAC	% Cover of Wetland Bryophytes	_		
6.					FACW	(Where applicable)	_		
7.					FACU	% Bare Ground			
8.			•			Total Cover of Bryophytes45	_		
10.				. \square		Hydrophytic			
		Total C		6 of Total Cover: 10.22		Vegetation Present? Yes ● No ○			
ļ									

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T24_05

Profile Descript		ne depth nee latrix	ded to docum	ment the indicator or confirm the absence of indicators) Redox Features						
Depth (inches)							1 2	Texture	Remarks	
	Color (moi	st)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2		Remarks	
0-12					- ——			Fibric Organics		
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³			
Histosol o	Histosol or Histel (A1)			Alaska Color Cl	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA!	5)		Underlying Layer		
_	Sulfide (A4)			☐ Alaska Redox \	Nith 2.5Y F	Hue		Other (Explain in Remark	rs)	
	k Surface (A12)									
	eyed (A13)							nary indicator of wetland h	ydrology,	
Alaska Re				and an appropriat	te landscap	oe position r	nust be pre	esent		
	eyed Pores (A15)		⁴ Give details of co	olor chang	e in Remark	S			
Restrictive Lay	er (if present):									
-	ve layer (frozen	`						Hydric Soil Present	? Yes • No O	
Depth (incl)						nyunc son Present	r res © No C	
Remarks:	1165). 12									
·										
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)						Water Stair	ned Leaves (B9)	
✓ Surface V	Vater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)	Drainage P	Patterns (B10)	
✓ High Wat				Sparsely Veg		-	, , ,		hizospheres along Living Roots (C3)	
✓ Saturation	n (A3)			Marl Deposits			. ,	Presence o	f Reduced Iron (C4)	
☐ Water Ma	arks (B1)			Hydrogen Su	. ,	(C1)		Salt Depos	its (C5)	
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)	
Drift Dep	. ,			Other (Explain				Geomorphi	ic Position (D2)	
	or Crust (B4)			out of (2.4p.o.				✓ Shallow Ag	` '	
✓ Iron Depo	. ,								raphic Relief (D4)	
	ioil Cracks (B6)							✓ FAC-neutra	• • • •	
Field Observa								The neada	1 1050 (23)	
Surface Wate		Yes	No O	Depth (inche	es): 2					
Water Table F		Yes •		Depth (inche	•		Wetla	nd Hydrology Presen	t? Yes • No O	
Saturation Pro	esent?	Yes •		Depth (inche	•			,		
(includes capi				, aerial photos, pre		action) if ava	nilahle:			
Describe Recor	ded Data (stree	iii gauge, i	nomicor weil,	, acriai priotos, pre	vious irispe	ccion) ii ave	mable.			
Remarks:										
community a r	nosaic of satura	ted shrub h	ummocks ar	nd flooded sedge ir	iterhummc	cks. interhu	mmocks w	ith 1-2in surface water, iro	n floc, and biogenic sheen	
indicating a red	ducing environm	nent.								

U.S. Army Corps of Engineers Alaska Version 2.0