WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroelectric Pro	ject	во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul	l-13	
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T10	6_02	
nvesti	gator(s): WAD, BAB	side, terrac	e, hummocks etc.): Gulch or Gully					
.ocal ı	relief (concave, convex, none): concave	% / 5.0	° Elevation: 857					
Subred	gion : Interior Alaska Mountains		 Lat.: 6	2.880686522	, —	Long.: -148.596542597 Datum: W0	GS84	
	ap Unit Name:			2.000000022	-	NWI classification: PSS1E		
		-1 f H-:- +:		Voo	● No ○			
	matic/hydrologic conditions on the site typic /egetation , Soil , or Hydrolo		•	res disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No (0	
Are \	′egetation , Soil , or Hydrolo	ogy 🗀 na	turally pro	blematic?	(If nee	ded, explain any answers in Remarks.)		
UMI	MARY OF FINDINGS - Attach site	map showi	ng sam	oling point	locations	s, transects, important features, etc.		
1	Hydrophytic Vegetation Present? Yes	No ○						
1	Hydric Soil Present? Yes	No ○				pled Area etland? Yes ● No ○		
	Wetland Hydrology Present? Yes	● No ○		wi	thin a W	etland? Yes No 🔾		
Rem	parks: Bottom of shallow gully at headwate photo num 964 ,965 photo time 10 56	ers of creek.						
EGE	ETATION -Use scientific names of	plants. List	all spec	ies in the	plot.			
Ab				Dominant	Indicator	Dominance Test worksheet:		
	e Stratum		6 Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2	(A)	
1.	-					Total Number of Dominant		
2.						Species Across All Strata: 2	(B)	
3.						Percent of dominant Species	(A (D)	
4. 5.						That Are OBL, FACW, or FAC: 100.0%	(A/B)	
5.		Total Cover:				Prevalence Index worksheet:		
C			20%	of Total Cover:	0	Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total	cover	20% C		0	OBL Species <u>1</u> x 1 = <u>1</u>		
1.	Salix pulchra		90	✓	FACW	FACW Species 105 x 2 = 210		
2.	Vaccinium uliginosum		25		FAC	FAC Species 89 x 3 = 267	_	
3.	Betula nana		5		FAC	FACU Species 9 x 4 = 36	_	
4.	Dasiphora fruticosa				FAC	UPL Species <u>0</u> x 5 = <u>0</u>	_	
5.	-				FAC	Column Totals: <u>204</u> (A) <u>514</u>	_ (B)	
6.			4		FACU	Prevalence Index = B/A = 2.520		
7.	Alnus viridis ssp. crispa				FAC			
8.						Hydrophytic Vegetation Indicators:		
9.						✓ Dominance Test is > 50%✓ Prevalence Index is ≤3.0		
10.			135					
Her		l Cover: <u>67</u>		of Total Cover	:27	Morphological Adaptations ¹ (Provide supporting Remarks or on a separate sheet)	data in	
1.	Cornus suecica		40	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Rubus chamaemorus		10		FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Equisetum arvense		5		FAC	be present, unless disturbed or problematic.		
4.	Geranium erianthum		5		FACU	Plot size (radius, or length x width)		
5.	Sanguisorba canadensis		5		FACW	% Cover of Wetland Bryophytes		
6.	Calamagrostis canadensis		3		FAC	(Where applicable)		
7.	Equisetum fluviatile				OBL	% Bare Ground5	_	
8.						Total Cover of Bryophytes	_	
10.		Hydrophytic						
		Fotal Cover: Cover: 34.	12.0	Vegetation Present? Yes • No •				
l								

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T106_02

Profile Descripti	ion: (Describe to th	e depth neede	d to document	the indicator or cor	nfirm the ab	sence of indica	ators)		
Depth		atrix			lox Featu				
(inches)	Color (mois	t) 0	<u>C</u>	olor (moist)	%	Type ¹	_Loc_ ²	Texture	Remarks
0-3			00					Fibric Organics	
3-7			00					Hemic Organics	
7-11		1	00					Sapric Organics	
								-	
-				-					
¹Type: C=Cor	ncentration. D=[Depletion. RN	1=Reduced N	Matrix ² Location	ı: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:		In	dicators for Pro	oblemati	c Hydric So	oils: ³		
Histosol or	r Histel (A1)			Alaska Color Ch	ange (TA	4) ⁴		Alaska Gleyed Without Hu	ie 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	•	•		Underlying Layer	
	Sulfide (A4)		L	Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remarks	5)
	Surface (A12)		3	One indicator of	hvdrophyt	tic vegetation	n one prim	nary indicator of wetland hy	udrology
☐ Alaska Gle				nd an appropriat					, di ology,
Alaska Red	. ,		4	Give details of co	olor chang	e in Remark	S		
	eyed Pores (A15)						_		
Restrictive Laye									
Type: seas								Hydric Soil Present?	? Yes ● No ○
Depth (inch	nes): 11								
Remarks:									
HYDROLO									
=	rology Indicate								rators (two or more are required)
	tors (any one is	sufficient)	Г						ned Leaves (B9)
✓ Surface W	• ,		Ĺ	Inundation Vi		_		✓ Drainage Pa	` '
✓ High Wate	. ,		[Sparsely Vege		ncave Surfac	e (B8)		nizospheres along Living Roots (C3)
✓ Saturation	` ,		[]	Marl Deposits	. ,	(C1)			Reduced Iron (C4)
Water Ma	Deposits (B2)		ι [Hydrogen Sul				Salt Deposi	ts (C5) Stressed Plants (D1)
Drift Depo	. ,							✓ Geomorphic	` '
	or Crust (B4)		L	Other (Explai	Л ІП Кеніа	rks)		✓ Geomorphic ✓ Shallow Aqi	` '
Iron Depo									raphic Relief (D4)
	oil Cracks (B6)							✓ FAC-neutral	
Field Observa									1000 (= 1)
Surface Water		Yes	No O	Depth (inche	s): 1				
Water Table P	Present?	Yes	No O	Depth (inche	•		Wetlar	nd Hydrology Present	t? Yes • No O
Saturation Pre		Yes •		, ,	,				
(includes capi		Yes 💌	No ∪	Depth (inche	s): 0				
Describe Recor	ded Data (strea	m gauge, mo	nitor well, a	erial photos, prev	ious inspe	ection) if ava	ilable:		
Remarks:									
surface water i	n small patches,	hummocky	surface						

U.S. Army Corps of Engineers Alaska Version 2.0