## WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroele	ectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12		
Applic	ant/Owner: Alaska Energy Autho	ority				Sampling Point: SW12_T54_04		
nvesti	gator(s): SLI, KMK		side, terrac	e, hummocks etc.): Swale				
_ocal	relief (concave, convex, none):	convex		Slope: 17.6	% / 10.0	0 ° Elevation: 761		
Subre	gion: Southcentral Alaska		Lat.:	62.833801578	 6	Long.: -149.156528306 Datum: WGS84		
	ap Unit Name:		_			NWI classification: Upland		
	matic/hydrologic conditions on the	eite tynical for this ti	me of year	2 Yes	No ○	(If no, explain in Remarks.)		
				disturbed?		lormal Circumstances" present? Yes  No		
		, ,, ,	naturally pr			eded, explain any answers in Remarks.)		
			• •					
SUM	MARY OF FINDINGS - Attac	ch site map sho	wing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present?	Yes 💿 No 🤇				1.14		
	Hydric Soil Present?	Yes O No 🤄				pled Area etland? Yes ◯ No ◉		
	Wetland Hydrology Present?	Yes O No 🤄		Wi	thin a W	etland? Tes UNO S		
Ren	narks: tall closed canopy alder-will	ow community near	head of dr	ainage				
11011	tall closed carlopy alder-will	ow community near	neau or ur	amaye.				
/EGI	<b>ETATION -</b> Use scientific nai	mes of plants. L	ist all spe	cies in the	plot.			
			Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum_		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.			0_			That are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant		
2.			0			Species Across All Strata:3(B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.			0			Prevalence Index worksheet:		
		Total Cover				Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 509	% of Total Cover:	0 20%	of Total Cover:	0	OBL Species		
1.	Alnus viridis ssp. crispa		50	✓	FAC	FACW Species 23 x 2 = 46		
2.	Ribes triste		5		FAC	FAC Species <u>121</u> x 3 = <u>363</u>		
3.	Salix barclayi		10		FAC	FACU Species 33 x 4 = 132		
4.	Salix pulchra			<b>~</b>	FACW	UPL Species x 5 =		
5.	Oplopanax horridus				FACU	Column Totals: <u>177</u> (A) <u>541</u> (B)		
6.						Prevalence Index = B/A = 3.056		
7.								
8.						Hydrophytic Vegetation Indicators:		
9.						✓ Dominance Test is > 50%		
10.		T.1.10				☐ Prevalence Index is ≤3.0		
Но	rb Stratum 50	Total Cover % of Total Cover:		of Total Cover	: 18	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
_	Athyrium filix-femina	_	50	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	O stantaria sa antara				FAC	Indicators of hydric soil and wetland hydrology must		
3.	Phegopteris connectilis		5		FACU	be present, unless disturbed or problematic.		
4.	Drugatorio avagano		10		FACU			
5.	Arete greetic letifolic		2		FACW	Plot size (radius, or length x width)		
6.	Cornus canadensis		3		FACU	% Cover of Wetland Bryophytes (Where applicable)		
7.	Streptopus amplexifolius		5		FACU	% Bare Ground85		
8.	Thalictrum sparsiflorum		5		FACU	Total Cover of Bryophytes 10		
_	Carex microchaeta		_1		FAC			
9.			0			Hydrophytic		
10.						Vanatation		
		Total Cover % of Total Cover:				Vegetation Present? Yes ● No ○		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12\_T54\_04

		he depth ne	eded to docu	ment the indicator or co	nfirm the abs		cators)						
Depth (inches)	Color (moi			Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks				
0-2	Coloi (illoi	30,		color (moist)		Турс	LUC	Fibric Organics					
2-4	5YR	3/3	100					Silt Loam					
4-5			100		-			Sapric Organics					
5-6	7.5YR	 5/2	100					Silt					
	7.51K	- 5/2											
6-8			100					Sapric Organics					
8-8.5	5YR	3/4						Fine Sand					
8.5-16	5YR	3/2	100					Silt Loam					
17 00				2									
Type: C=Con	<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil In	dicators:			Indicators for Pr		4	oils:						
Histosol or	Histel (A1)			Alaska Color Cl					Alaska Gleyed Without Hue 5Y or Redder				
Histic Epipe	edon (A2)			Alaska Alpine s		•		Underlying Layer					
	Sulfide (A4)			Alaska Redox V	With 2.5Y F	lue		Other (Explain in Remark	s)				
	Surface (A12)			<sup>3</sup> One indicator of	hydronhyt	ic vegetatio	n one nrin	nary indicator of wetland h	vdrology				
Alaska Gley				and an appropriat	te landscap	e position i	must be pre	esent	ydrology,				
Alaska Red		`		4 Give details of co	olor change	e in Remark	(S						
-	ed Pores (A15	)											
Restrictive Laye	r (if present):												
Type:	00):							Hydric Soil Present?	P Yes ○ No •				
Depth (inch Remarks:	es):												
HYDROLO	GΥ												
Wetland Hydr	ology Indica	tors:						_Secondary Indic	rators (two or more are required)				
Primary Indicat		sufficient	:)					Water Stained Leaves (B9)					
Surface W				Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage Pa	atterns (B10)				
	r Table (A2)			Sparsely Veg		cave Surfa	ce (B8)		nizospheres along Living Roots (C3)				
☐ Saturation (A3)				Marl Deposits	` ,				Reduced Iron (C4)				
Water Mar				☐ Hydrogen Su				Salt Deposi					
Drift Depo	Deposits (B2)			Dry-Season \		. ,			Stressed Plants (D1) c Position (D2)				
	or Crust (B4)		U Other (Explain	ın ın kema	rks)		Shallow Aq	` '					
Iron Depos							raphic Relief (D4)						
	il Cracks (B6)							✓ FAC-neutral					
Field Observa													
Surface Water		Yes C	No 💿	Depth (inche	es):								
Water Table P	resent?	Yes C	No •	Depth (inche	•		Wetla	nd Hydrology Present	t? Yes O No 💿				
Saturation Pre		_	_	, ,	•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
(includes capil		res $\bigcirc$	No 💿	Depth (inche	es):								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													

U.S. Army Corps of Engineers Alaska Version 2.0