WETLAND DETERMINATION DATA FORM - Alaska Region

Sus	Susitr	na-Wa	tana Hyo	droele	ctric Proje	ct		Borough/	City:	Mata	nuska	-Susi	tna B	oroug	h	Sampling [Date:	08-	Aug-12
:	r: A	laska	Energy	Author	ity									Sa	mplir	ng Point:	SW	12_	T44_53
5	SL	_I, KMk	(Landfor	m (hills	side, te	errace	, hum	nmoc	ks etc.):	Flat			
cav	cave,	, conve	ex, none): <u>f</u> la	at			Slope:	5.2	% /	3.0	°	Eleva	ition:	752	-			
eric	erior	Alaska	Mounta	ains			Lat.:	62.8901	81578			Long	.:1	48.46	6221	643	Dat	um:	WGS84
me	ame:												_ 1	NWI c	lassi	fication: F	SS1/EN	11E	
	rologi], S	litions or oil 🗌 oil 🗹	, or	ite typical Hydrology Hydrology	, 🗌	significan	ar? tly disturb problemat	ed?		re "No	rmal	Circu	mstan	ices"	Remarks.) present? ers in Rem	Yes 🤇		No O
)F	DF F	INDI	IGS - /	Attacl	~	ap sho	wing sa	mpling p	point	locat	ions,	trar	isec	ts, in	npor	tant featu	ures, e	tc.	
			NGS -/		\sim	ap sho		mpling p	point	locat	ions,	trar	isec	ts, in	npor	tant	featu	features, et	features, etc.

Hydrophytic Vegetation Present?	Yes 🖲	No 🔾	le the Compled Area	
Hydric Soil Present?	~		Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No		

Remarks: pronounced microtopography, hummocks 1m high. Picea trees/shrubs on hummocks, standing water and emergents in hollows.

VEGETATION - Use scientific names of plants. List all species in the plot.

				Dominant 3	Indicator	Dominance Test worksheet:
Tre	e Stratum		olute Cover	Species?	Status	Number of Dominant Species
1.	Picea mariana		15		FACW	That are OBL, FACW, or FAC: (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: 100.0% (A/B)
5.			0			· · · ·
	Total Cover	:	15			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5	20%	of Total Cover:	3	
	Betula nana		7		FAC	
2.	Vaccinium uliginosum		5		FAC	
3.	Empetrum nigrum		3		FAC	
4.	Dasiphora fruticosa		7		FAC	UPL Species x 5 =
5.	Vaccinium vitis-idaea		2		FAC	Column Totals: <u>106</u> (A) <u>233</u> (B)
6.				\checkmark	FACW	Prevalence Index = B/A = 2.198
7.					FACU	Prevalence Index = B/A =
8.	Picea mariana		15	\checkmark	FACW	Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is \leq 3.0
	Total Cover	:	50			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:			of Total Cover:	10	Remarks or on a separate sheet)
1.	Carex aquatilis		15	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Equisetum palustre		10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus		5		FACW	be present, unless disturbed or problematic.
4.	Carex canescens (IAM)		3		FAC	
5.	Sanguisorba canadensis		1		FACW	Plot size (radius, or length x width) <u>10m</u>
6.	Valeriana sitchensis		1		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.	Carex bigelowii		3		FAC	% Bare Ground45
8.	Calamagrostis canadensis		3		FAC	Total Cover of Bryophytes 50
9.			0			
			0			Hydrophytic
	Total Cover		41			Vegetation
	50% of Total Cover:			of Total Cover:	8.2	Present? Yes \odot No \bigcirc
Rem	arks: 2% unid herb, possibly first year valerian leave	es.				

Profile Description			ded to docu	iment the indicator or cor			icators)					
Depth (inches)	Color (moi	latrix st)	%	Color (moist)	dox Featı %	ures Type ¹	Loc 2	Texture	Remarks			
	·											
		,										
¹ Type: C=Con	centration. D=	Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. R	C=Root Cha	annel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	ic Hydric S	soils: ³					
-	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipe	. ,			Alaska Alpine s		-	-	Underlying Layer				
	Sulfide (A4)			Alaska Redox V	(S)							
Thick Dark	Surface (A12)			• • • • • •								
Alaska Gley	yed (A13)			³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present								
Alaska Red	lox (A14)											
🗌 Alaska Gle	yed Pores (A15)		⁴ Give details of co	⁴ Give details of color change in Remarks							
Restrictive Laye	er (if present):											
Туре:	• •							Hydric Soil Present	? Yes 🖲 No 🔾			
Depth (inch	ies):											
Remarks:												
assume hydric s	soils due to inu	ndation and	d hydrophy	tic vegetation/								
			-	-								
	~v											
HYDROLO Wetland Hydr								Cocondony Indi	(two or more are required)			
-	tors (any one is								cators (two or more are required) ned Leaves (B9)			
Surface W		Junicient,		Inundation V	/icible on /	Aorial Image	ory (87)	Drainage Patterns (B10)				
	er Table (A2)			Sparsely Veg		5	, , ,	 Oxidized Rhizospheres along Living Roots (C3) 				
Saturation				Marl Deposits		Illave Su		Presence of Reduced Iron (C4)				
Water Mar	. ,			Hydrogen Su	• •	r (C1)		_	Salt Deposits (C5)			
	Deposits (B2)			Dry-Season V					Stunted or Stressed Plants (D1)			
Drift Depo				Other (Explai		. ,		Geomorphic Position (D2)				
	or Crust (B4)			<u> </u>					quitard (D3)			
✓ Iron Depo									graphic Relief (D4)			
Surface Sc	oil Cracks (B6)							✓ FAC-neutra	ıl Test (D5)			
Field Observa	itions:											
Surface Water	· Present?	Yes 🖲	No 〇	Depth (inche	es): 8							

Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Yes 🔿 No 🖲

Yes 🔿 No 🖲

Remarks:

Water Table Present?

Saturation Present? (includes capillary fringe)

standing water between hummocks, with iron floc on sediments. estimate 50% spruce hummocks, 50% emergents w standing water.

Depth (inches):

Depth (inches):

Yes 💿 No 🔾