WETLAND DETERMINATION DATA FORM - Alaska Region

rojeci	t/Site: Susitna-Watana Hydroelectric Project		Borough/	City: Mata	anuska	-Susitna Borough Sampling Date: 07-Aug-13		
Applica	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T196_08						
	gator(s): SLI, EAC		Landfori	m (hillside, t	terrace	, hummocks etc.): Valley bottom		
	relief (concave, convex, none): flat				° Elevation: 749			
	gion : Interior Alaska Mountains	l at :	Slope:					
		Lat	03.3097					
	ap Unit Name:			· · ·		NWI classification: PSS1B		
Are V	matic/hydrologic conditions on the site typical for thi	significar	ntly disturb		Are "No	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○		
Are V	/egetation \square , Soil $oldsymbol{arVert}$, or Hydrology \square	naturally	problemat	IC? ((If need	led, explain any answers in Remarks.)		
BUMI	MARY OF FINDINGS - Attach site map si	howing sa	ampling p	ooint locat	itions,	transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No	0						
	Hydric Soil Present? Yes No	_	oled Area					
	.,	\circ	within a Wetland? Yes $leftsymbol{igotimes}$ No $igcirc$					
	arks: valley bottom, no channelized features	, ,	<u>_</u>					
/EGE	ETATION -Use scientific names of plants	. List all s _l		the plot.		Dominance Test worksheet:		
Tre	e Stratum	% Cove			atus	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)		
1.		0	[That are OBL, FACW, or FAC:5(A) Total Number of Dominant		
2.		0	_ [Species Across All Strata:5 (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 Co		_			Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 50% of Total Cover:	020	% of Total	Cover:	0	OBL Species <u>8.1</u> x 1 = <u>8.1</u>		
1.	Dasiphora fruticosa	50)	✓ FAC	С	FACW Species 14.1 x 2 = 28.20		
	Salix pulchra			FAC	CW	FAC Species <u>83.1</u> x 3 = <u>249.3</u>		
3.	Salix reticulata	30	<u> </u>	FAC	С	FACU Species <u>0.1</u> x 4 = <u>0.400</u>		
4.	Andromeda polifolia (IAM)	0.	 1 [OBL	L	UPL Species <u>0</u> x 5 = <u>0</u>		
5.						Column Totals: <u>105.4</u> (A) <u>286</u> (B)		
6.			_ [] <u> </u>				
7.		0				Prevalence Index = B/A = 2.713		
8.		0	_			Hydrophytic Vegetation Indicators:		
9.		0	_ [_		✓ Dominance Test is > 50%		
10.		0				✓ Prevalence Index is ≤3.0		
Her	Total Co b Stratum 50% of Total Cover:	8.02	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
1.	Carex lachenalii			✓ OBL		Problematic Hydrophytic Vegetation (Explain)		
2.	Carex membranacea	2		FAC		¹ Indicators of hydric soil and wetland hydrology must		
3.	Thalictrum alpinum			✓ FAC		be present, unless disturbed or problematic.		
4.	Swertia perennis			FAC		Plot size (radius, or length x width)		
5.	Equisetum scirpoides			FAC		% Cover of Wetland Bryophytes		
6.	Equisetum variegatum			FAC		(Where applicable)		
7.	Rhodiola integrifolia			FAC		% Bare Ground <u>20</u>		
8.	Juncus castaneus		_	FAC		Total Cover of Bryophytes <u>85</u>		
9.	Equisetum arvense	$-\frac{1}{1}$	_	FAC				
10.	Carex aquatilis		_	OBL		Hydrophytic		
1	Total Co			C	. 00	Vegetation Present? Yes ● No ○		
	50% of Total Cover:	<u>7.65</u> 20)% of Total		3.06	Present? Yes • No ·		

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SOIL Sampling Point: SW13_T196_08

		the depth no	eeded to docur	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo		——— —	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-5	5YR	2.5/2	100	Color (moist)		Турс	LUC	Sapric Organics			
5-13	10YR	3/1	100					Coarse Sand	30% cobble, 30% gravel		
	5-13 101K 3/1 100							- Course suma	30 % cobble, 30 % gravel		
									-		
				-				-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue	✓	✓ Other (Explain in Remarks)			
☐ Thick Dark	Surface (A12)									
Alaska Gle	yed (A13)			³ One indicator of and an appropria				nary indicator of wetland h	nydrology,		
Alaska Red	dox (A14)					•	•	ESCIT			
Alaska Gle	yed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	XS.				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes • No O		
Depth (inch	nes):										
Remarks: No redox feature and thus are w				arse sand texture wil	th high cob	ble-gravel c	content. M	any cobbles are granite (o	r a slightly metamorphosed granitic)		
HYDROLO											
Wetland Hyd			_						cators (two or more are required)		
Primary Indica		is sufficien	t)						ned Leaves (B9)		
Surface W	. ,			☐ Inundation V		_					
✓ High Water Table (A2) Sparsely Vegetated (icave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation Water Ma	. ,			☐ Marl Deposit	` '	(04)		_	of Reduced Iron (C4)		
				☐ Hydrogen Su				Salt Depos			
Drift Depo	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1) ic Position (D2)		
	or Crust (B4)			☐ Other (Expla	ın ın kema	rks)			quitard (D3)		
Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	' ' '		
Field Observa								E THE HEALT			
Surface Water		Yes C	No •	Depth (inche	es):						
Water Table P			No O	, ,	•		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Depth (inche	es): 11		Wetia	na rryarology r resen	165 C 110 C		
(includes capi		Yes 🥌	No O	Depth (inche	es): 9						
Describe Recor	ded Data (stre	am gauge,	monitor we	ll, aerial photos, pre	vious inspe	ction) if ava	ailable:				
Remarks:											

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