WETLAND DETERMINATION DATA FORM - Alaska Region

t/Site: Susitna-Watana Hydroelectric Project	E	3orough/City:	Matanusk	a-Susitna Borough Sampling Date:23-Aug-15								
ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T308_10								
relief (concave, convex, none): flat		Slope: 0.0	% / 0.0	° Elevation:								
gion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84								
				NWI classification: PEM1F								
-	mo of voc	r2 Ves (● No ○	(If no, explain in Remarks.)								
, as the manner of the manner												
			·									
· · · · · · · · · · · · · · · · · · ·		npling point	locations	s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes ● No ○)	_										
Hydric Soil Present? Yes ● No ○)	Is the Sampled Area										
Wetland Hydrology Present? Yes ● No ○)	wi	thin a W	/etland? Yes ◉ No ○								
Remarks: Check criteria for marsh F vs. wet E.												
ETATION -Use scientific names of plants. Li	st all spe	ecies in the I	olot.									
·	•••••			Dominance Test worksheet:								
ee Stratum			Status	Number of Dominant Species								
				That are OBL, FACW, or FAC: (A)								
	-			Total Number of Dominant Species Across All Strata: 1 (B)								
				Percent of dominant Species								
				That Are OBL, FACW, or FAC: 100.0% (A/B)								
				Prevalence Index worksheet:								
Total Cover:				Total % Cover of: Multiply by:								
pling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species <u>25</u> x 1 = <u>25</u>								
Salix fuscescens	2		FACW	FACW Species <u>3</u> x 2 = <u>6</u>								
Betula nana	2		FAC	FAC Species <u>3</u> x 3 = <u>9</u>								
	0			FACU Species x 4 =0								
	0			UPL Species <u>0</u> x 5 = <u>0</u>								
				Column Totals: <u>31</u> (A) <u>40</u> (B)								
	0			Prevalence Index = B/A =1.290_								
				Hydrophytic Vegetation Indicators:								
				✓ Dominance Test is > 50%								
				✓ Prevalence Index is ≤3.0								
		% of Total Cover:	0.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)								
TD Stratum				, , , , , , , , , , , , , , , , , , , ,								
0	20	✓	OBI	Problematic Hydrophytic Vegetation (Explain)								
Carrex aquatilis			OBL OBL	Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must								
Carex aquatilis Comarum palustre	5		OBL OBL FACW	Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
Carex aquatilis Comarum palustre Cardamine umbellata	5		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
Carex aquatilis Comarum palustre Cardamine umbellata Calamagrostis canadensis	5 1 1		OBL FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)								
Carex aquatilis Comarum palustre Cardamine umbellata	5 1 1 0		OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
Carex aquatilis Comarum palustre Cardamine umbellata Calamagrostis canadensis	5 1 0 0		OBL FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes								
Carex aquatilis Comarum palustre Cardamine umbellata Calamagrostis canadensis	5 1 0 0 0		OBL FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable)								
Carex aquatilis Comarum palustre Cardamine umbellata Calamagrostis canadensis	5 1 0 0 0 0	V	OBL FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground 25								
Carex aquatilis Comarum palustre Cardamine umbellata Calamagrostis canadensis	5 1 0 0 0 0 0		OBL FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground Total Cover of Bryophytes Hydrophytic								
Carex aquatilis Comarum palustre Cardamine umbellata Calamagrostis canadensis	5 1 0 0 0 0 0 0		OBL FACW FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground Total Cover of Bryophytes 35								
	ant/Owner: Alaska Energy Authority gator(s): GVF relief (concave, convex, none): flat gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this tir //egetation	ant/Owner: Alaska Energy Authority gator(s): GVF relief (concave, convex, none): flat gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this time of year //egetation	ant/Owner: Alaska Energy Authority gator(s): GVF	ant/Owner: Alaska Energy Authority gator(s): GVF								

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SOIL Sampling Point: SW15_T308_10

		ne depth nee l atrix	ded to docume	nt the indicator or co	nfirm the ab						
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
						.,,,,					
							-				
									-		
					-						
1 Type: C-Cer		Donlotion I	M-Doducod	Matrix ² Location	DI – Dore	- Lining DC		nnol M-Matrix			
		Depletion, i						illei. M=Matrix			
Hydric Soil I]	Indicators for Pr		4	oils:				
	r Histel (A1)		L	Alaska Color Cl		-		Alaska Gleyed Without House Underlying Layer	ue 5Y or Redder		
Histic Epip			L	Alaska Alpine s	•	,	✓		(c)		
_ ' '	Sulfide (A4)		L	Alaska Redox \	Vith 2.5Y F	lue	V	Other (Explain in Remark	(8)		
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropriat					yul ology,		
Alaska Red	. ,			4 Give details of co	olor change	e in Remark	rc ·				
Alaska Gle	yed Pores (A15)		GIVE details of C	Jior Change	e iii Neiliai k					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
Remarks:											
no pit, too wet	to dig. EKJ mad	le valiant e	fort to no av	ail. inundated, ass	ume hydri	С.					
HYDROLO	GY										
Wetland Hydi		ors:						Secondary India	cators (two or more are required)		
-	tors (any one is								ned Leaves (B9)		
✓ Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager	rv (B7)		Patterns (B10)		
✓ High Wate	. ,			Sparsely Veg		_		,			
✓ Saturation	. ,			Marl Deposits		icave Sarrae	JC (DO)		of Reduced Iron (C4)		
☐ Water Ma	. ,			Hydrogen Su	,	(C1)		Salt Deposits (C5)			
	Sediment Deposits (B2) Dry-Season Water Table (C2)								Stressed Plants (D1)		
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							✓ Geomorphic Position (D2)			
Algal Mat	or Crust (B4)										
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	ations:										
Surface Water	r Present?	Yes 💿	No \bigcirc	Depth (inche	s): 3						
Water Table P	resent?	Yes	No O	Depth (inche	e). U		Wetlan	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre					•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
(includes capil		Yes •	No U	Depth (inche	s): 0						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ailable:				
Remarks:											

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