WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-A	Aug-15			
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW15_T	330_06					
nvestigator(s): AFW	side, terrac	e, hummocks etc.): Swale						
ocal relief (concave, convex, none): hummocky		Slope: 3.5	% / 2.0	° Elevation:				
ubregion : Interior Alaska Mountains	Lat.:			Long.: Datum:	WGS84			
oil Map Unit Name:				NWI classification: PEM1/SS1E				
re climatic/hydrologic conditions on the site typical for this ti	ima af vaar	2 Vac	● No ○	(If no, explain in Remarks.)				
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology . SUMMARY OF FINDINGS - Attach site map shot	significantly naturally pr wing sam	y disturbed? oblematic?	Are "N (If nee	ormal Circumstances" present? Yes Noded, explain any answers in Remarks.)	lo O			
C. C.	the Sam	nled Δrea						
Hydric Soil Present? Yes No No			Is the Sampled Area within a Wetland? Yes No					
Wetland Hydrology Present? Yes ● No ○)	W	illilli a vv	etiality 100 5 No 5				
Remarks: narrow drainageway								
EGETATION -Use scientific names of plants. Li	ist all spe		plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species				
1.	70 00101			That are OBL, FACW, or FAC:2	(A)			
2.				Total Number of Dominant	(B)			
3.				Species Across All Strata: 2 Percent of dominant Species	(D)			
4.				That Are OBL, FACW, or FAC: 100.0%	(A/B)			
5.				Prevalence Index worksheet:				
Total Cover	:			Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	001.0	5			
Salix pulchra	30	✓	FACW		0			
2.				FAC Species 1 x 3 = 3	3			
3.				FACU Species 0 x 4 = 0)			
4.	_			UPL Species0 x 5 =0)			
5.				Column Totals: <u>96</u> (A) <u>12</u>	28 (B)			
6.	0				(=,			
7	0_			Prevalence Index = B/A = 1.333				
8	0			Hydrophytic Vegetation Indicators:				
9	0			Dominance Test is > 50%				
10	0			✓ Prevalence Index is ≤3.0				
Total Cover: 50% of Total Cover:			: 6	Morphological Adaptations (Provide supporting Remarks or on a separate sheet)	ng data in			
Carex aquatilis	55	V	OBL	Problematic Hydrophytic Vegetation (Explain)	•			
Comarum palustre			OBL	¹ Indicators of hydric soil and wetland hydrology mu	ıst			
3. Calamagrostis canadensis			FAC	be present, unless disturbed or problematic.				
4				Plot size (radius, or length x width) <u>5x10 r</u>	<u>n</u>			
5	_			% Cover of Wetland Bryophytes				
6				(Where applicable)				
7				% Bare Ground 60				
8. 9.				Total Cover of Bryophytes 35				
10.	0			Undrankatia				
Total Cover	Hydrophytic Vegetation							
50% of Total Cover:	13.2	Present? Yes • No						
Remarks:	33 20%	or rotal Cover	13.2	TOOLINE TOO TOO				

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SOIL Sampling Point: SW15_T330_06

	on: (Describe to t	he depth nee	eded to docume	ent the ind		firm the abs		ators)				
Depth (inches)	Color (moi	st)	%	Color (m	oist)	%	Type ¹	Loc 2	Texture	Remarks		
0-9	5Y	3/1		7.5YR	3/3	20	C	PL	Loamy Sand	organic inclusions		
			100						Mucky Peat			
9-20										w mineral content		
¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
Hydric Soil Ir	ndicators:			_			4	oils:				
Histosol or	Histel (A1)		ļ	Alask	a Color Cha	ange (TA4)		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	edon (A2)			Alask	a Alpine sv	vales (TA5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alask	a Redox W	ith 2.5Y H	ue		Other (Explain in Remark	rs)		
☐ Thick Dark	Surface (A12)											
Alaska Gle	yed (A13)						c vegetation e position m		nary indicator of wetland h	ydrology,		
Alaska Red	lox (A14)					•	•					
	yed Pores (A15)		4 Give d	etails of co	or change	in Remarks	S				
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ● No O		
Depth (inch	ies):											
HYDROLO												
Wetland Hydr									Secondary India	cators (two or more are required)		
	tors (any one is	sufficient)								ned Leaves (B9)		
✓ Surface W	, ,			Inu	ındation Vis	sible on Ae	rial Imager	y (B7)	☐ Drainage P	atterns (B10)		
✓ High Wate	` ,			☐ Spa	arsely Vege	tated Con	cave Surfac	e (B8)		hizospheres along Living Roots (C3)		
✓ Saturation				L Ma	rl Deposits	(B15)				f Reduced Iron (C4)		
Water Mar				_ ′	drogen Sulf				Salt Depos	its (C5)		
	Deposits (B2)			U Dry	/-Season W	ater Table	(C2)			Stressed Plants (D1)		
Drift Depo				☐ Oth	ner (Explain	in Remar	ks)		✓ Geomorphi	` ,		
	or Crust (B4)									uitard (D3)		
✓ Iron Depo										raphic Relief (D4)		
Surface So	oil Cracks (B6)								✓ FAC-neutra	l Test (D5)		
Field Observa	tions:											
Surface Water	Present?	Yes 🕑	No O	De	pth (inches): 7						
Water Table P	resent?	Yes 💿	No \bigcirc	De	pth (inches): 5		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capil		Yes	$_{No}\bigcirc$		pth (inches	•						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
small amounts	of surface wate	r in localiza	ed areas 🖭	JBH runn	ing through	n plot 2ft v	vide hv1 5-	2ft in dentl	h. verv incised			
Silian amounts	or surrace wate	i iii iocailzi	cu arcas, NJC	ווווווווווווווווווווווווווווווווווווווו	mig unougi	i piot Zit l	vide Dy1.3-	zit iii uepu	n. very museu.			

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