WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 24-Aug-15								
ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T331_04								
		Landform (hill	side, terrac									
			% / 1.0	- · · · · · · · · · · · · · · · · · · ·								
, <u> </u>	l at			Long.: Datum: WGS84								
	Lat											
			<u> </u>	NWI classification: Upland								
	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○								
year years, and the meaniness present												
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.												
Hydrophytic Vegetation Present? Yes No No												
, , , , ₀		Is the Sampled Area										
· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ○ No ●										
, ,		<u> </u>										
arks.												
TATION - Use scientific names of plants Li	ict all c	necies in the	nlot									
ose scientific flames of plants. El	or an s	pecies in the	piot.	Dominance Test worksheet:								
o Stratum				Number of Dominant Species								
e Stratum		<u>Species:</u>	<u> </u>	That are OBL, FACW, or FAC: (A)								
			-	Total Number of Dominant								
	_			Species Across All Strata:3(B)								
	_			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)								
	_											
Total Cover	:			Prevalence Index worksheet: Total % Cover of: Multiply by:								
ling/Shrub Stratum 50% of Total Cover:	0 2	:0% of Total Cover:	. 0	OBL Species 0 x1 = 0								
				FACW Species 56 x 2 = 112								
				FAC Species								
	_			FACU Species 12.1 x 4 = 48.40								
	_			UPL Species 0 x 5 = 0								
	_											
	_			Column Totals: 123.1 (A) 325.4 (B)								
	_			Prevalence Index = B/A =								
	_			Hydrophytic Vegetation Indicators:								
	0			✓ Dominance Test is > 50%								
				✓ Prevalence Index is ≤3.0								
	: 10	 5		Morphological Adaptations (P ¹ ovide supporting data in								
b Stratum 50% of Total Cover:	52.5	20% of Total Cover	: 21	Remarks or on a separate sheet)								
Rubus arcticus(IAM)	1	<u> </u>	FACU	Problematic Hydrophytic Vegetation (Explain)								
Petasites frigidus	2	<u> </u>	FACW	¹ Indicators of hydric soil and wetland hydrology must								
Cornus canadensis	2	<u> </u>	FACU	be present, unless disturbed or problematic.								
Festuca altaica	2	<u> </u>	FAC	Plot size (radius, or length x width)								
Polemonium acutiflorum	1	_	FAC	% Cover of Wetland Bryophytes								
Equisetum pratense	1	_	FACW	(Where applicable)								
			FACU	% Bare Ground								
	_			Total Cover of Bryophytes								
				Hydrophytic								
	: 18.	1		Vegetation								
Total Cover 50% of Total Cover:				Present? Yes • No •								
	ant/Owner: Alaska Energy Authority gator(s): ERT, TXC relief (concave, convex, none): hummocky gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this ti //egetation	ant/Owner: Alaska Energy Authority gator(s): ERT, TXC relief (concave, convex, none): hummocky gion: Interior Alaska Mountains	anti/Owner: Alaska Energy Authority gator(s): ERT, TXC	ant/Owner: Alaska Energy Authority gator(s): ERT, TXC								

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SOIL Sampling Point: SW15_T331_04

	ion: (Describe to t	the depth ne	eeded to docu	ment the ind		firm the ab		ators)				
Depth (inches)				Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1					<u>,</u>		-71		Fibric Organics	Oi		
1-2									Hemic Organics	Oe. irregular boundary		
2-4	7.5YR	2.5/2	100						Silt Loam	A. irregular boundary		
				7 EVD		20		DI				
4-10	2.5Y	4/2	80	7.5YR	4/4	20	C	PL	Sandy Loam	Bjj1, Cryoturbated,		
10-14	10YR	6/4	65	7.5YR	3/4	35	C	M	Very Fine Sandy Loam	Bjj2. Cryoturbated		
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil In	ndicators:						c Hydric So	oils: ³				
Histosol or	r Histel (A1)				ka Color Ch				Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)				ka Alpine sv	-	•		Underlying Layer			
	Sulfide (A4)			☐ Alask	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	(S)		
l —	Surface (A12))		3 One ir	ndicator of l	hvdrophyl	tic vegetatio	n one prir	mary indicator of wetland h	nvdrologv		
Alaska Gle							pe position r			rydrology,		
Alaska Red				4 Give d	letails of co	lor chang	e in Remark	S				
	yed Pores (A15											
Restrictive Laye	er (if present):											
Type:	·								Hydric Soil Present	:? Yes ○ No •		
Depth (inch	ies):											
HYDROLO												
Wetland Hydr										icators (two or more are required)		
Primary Indicat		s sufficient	t)					(22)				
Surface W							erial Imager					
Saturation	er Table (A2)				arsely Vege arl Deposits		ncave Surfac	ce (BA)		of Reduced Iron (C4)		
Water Mai	. ,				drogen Sulf	` '	(C1)		Salt Depos	• •		
	Deposits (B2)				y-Season W		` '			r Stressed Plants (D1)		
Drift Depo	,			_	y-season w her (Explair					ic Position (D2)		
	or Crust (B4)				ici (Espiesi	I III Ison	110)		= '	quitard (D3)		
☐ Iron Depo										graphic Relief (D4)		
Surface So	oil Cracks (B6)									al Test (D5)		
Field Observa	ations:											
Surface Water	Present?		No ●	De	epth (inches	s):						
Water Table P	resent?	Yes C	No ●	De	epth (inches	s):		Wetla	nd Hydrology Presen	nt? Yes • No O		
Saturation Pre (includes capil		Yes C	No •	De	epth (inches	s):						
Describe Record		am gauge	, monitor w				ection) if ava	ilable:				
·												
Remarks:												
C3see soil profile. D2footslope.												

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