WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project		B0	prough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13			
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T182_04			
nvesti	gator(s): JER		andform (hillside, terrace, hummocks etc.): Hillside						
Local r	relief (concave, convex, none): convex			Slope: % / 4.4 ° Elevation: 894					
	gion : Interior Alaska Mountains	l s		· 32.870699762					
		L		12.070099702					
	ap Unit Name:			. V	No ○	NWI classification: Upland			
Are V	matic/hydrologic conditions on the site typical for thi /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sh	signifio natura	antly lly pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) Iormal Circumstances Present? Yes ● No ○ eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No								
		\bullet		Is the Sampled Area					
	,	•		within a Wetland? Yes ○ No •					
Rema	arks: rapid upland plot, no trace species recorded. c		slope	e from SW13	-T182-04.				
	ETATION - Use scientific names of plants.	List all	lute	Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species			
1.		-	0			That are OBL, FACW, or FAC:5(A)			
2.			0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Cov	er:	0			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1	Betula glandulosa		75	✓	FAC	FACW Species 10 x 2 = 20			
	Empetrum nigrum		25	~	FAC	FAC Species 111 x 3 = 333			
3.	Rhododendron tomentosum		10		FACW	FACU Species 7 x 4 = 28			
4.	Vaccinium vitis-idaea		5		FAC	UPL Species 0 x 5 = 0			
5.	Spiraea stevenii		5		FACU	Column Totals: <u>128</u> (A) <u>381</u> (B)			
6.			0						
7.			0			Prevalence Index = B/A = 2.977			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
Her	Total Cover: 50% of Total Cover:		20 <u>20</u>	of Total Cover	:24	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus suecica		2	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
2.	Spinulum annotinum		2	~	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Carex bigelowii		2	✓	FAC	be present, unless disturbed or problematic.			
4.	Festuca altaica		2		FAC	Plot size (radius, or length x width)			
			0			% Cover of Wetland Bryophytes			
			0			(Where applicable)			
			0			% Bare Ground			
			0			Total Cover of Bryophytes			
			0			Hadronbadia			
10.	Total Cov		8	J		Hydrophytic Vegetation			
	i otai co	···		of Total Cover:		Present? Yes • No •			

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SOIL Sampling Point: SW13_T182_04

D. Cl. December	/D		1 11- 4		~ u l.	- 6 : di -		· -	1101111. 54415_1102_0+		
Profile Description		the depth ne	eded to docu	ment the indicator or co	nfirm the ab dox Featu		ators)				
Depth (inches)	Color (mo		 %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1			100		_			Fibric Organics			
1-2	7.5YR	3//3	100					Silt Loam			
2-8	7.5YR	3/2	100					Sandy Loam	organic invlusions, cobbles frequent		
8-11	7.5YR	4/6	100					Sandy Loam	large cobbles		
11-18	7.5YR	3/4	100					Sandy Loam	few gravels		
					-						
-					-						
¹Type: C=Con	ncentration. D	=Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder		
☐ Histic Epipedon (A2) ☐ Alaska Alpine swales (TA5)								Underlying Layer			
	Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue		Other (Explain in Remark	s)		
	Surface (A12)		³ One indicator of	hvdrophv	tic vegetatio	n, one prin	nary indicator of wetland h	vdrology.		
Alaska Gle				and an appropriat					,		
	yed Pores (A1	5)		4 Give details of co	olor chang	e in Remark	s				
	` `										
Restrictive Laye Type: frost								Hydric Soil Present	? Yes ○ No •		
Depth (inch								riyane son rresent	163 0 110 0		
Remarks:	-										
no hydric soil ii	ndicators										
, , , , , , , ,											
HYDROLO	GY										
Wetland Hydr		itors:						Secondary Indi	cators (two or more are required)		
Primary Indicat)						ned Leaves (B9)		
☐ Surface W	ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	Drainage P	Patterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Co	ncave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)		
Water Mar				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	in in Rema	ırks)			ic Position (D2)		
Iron Depo	or Crust (B4)							✓ Shallow Aq	praphic Relief (D4)		
	oil Cracks (B6)								of aprilic Relief (D4)		
Field Observa		<u>'</u>									
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre		Yes (No •	Depth (inche	•						
(includes capil				· ` `							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
Remarks.											

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