WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelect	ric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 30-Aug-15			
.pplicant/Owner: Alaska Energy Authorit	у				Sampling Point: SW15_T338_04			
vestigator(s): SLI, SCB			Landform (hil	lside, terrac	e, hummocks etc.): Footslope			
ocal relief (concave, convex, none):			Slope: 3.5	% / 2.0	° Elevation:			
ubregion: Interior Alaska Mountains		Lat.:			Long.: Datum: WGS84			
bil Map Unit Name:					NWI classification: PSS1B			
re climatic/hydrologic conditions on the sit	a typical for this tir	no of voor	o Vec	● No ○	(If no, explain in Remarks.)			
Are Vegetation , Soil , or F Are Vegetation , Soil , or F	Hydrology s Hydrology r site map shov	ignificantly naturally pro ving sam	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.) s, transects, important features, etc.			
Hydrophytic Vegetation Present?	Yes • No O		la.	mlad Araa				
Hydric Soil Present?		Is the Sampled Area within a Wetland? Yes ● No ○						
Wetland Hydrology Present?	Yes ● No ○		within a Wetland? Yes ● No ○					
Remarks:								
EGETATION -Use scientific name	es of plants. Lis	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A)			
1. Picea mariana				FACW	Total Number of Dominant			
2. 3.					Species Across All Strata: 4 (B)			
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.								
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of			of Total Cover	: 0.2	001.0			
					OBL Species 0 x1 = 0 FACW Species 31 x2 = 62			
1. Betula nana		40	✓	FAC	FAC Species 91 x 3 = 273			
Vaccinium uliginosum Rhododendron tomentosum				FACW	FACU Species 0 x 4 = 0			
4 Vaccinium vitic ideas		5		FAC	UPL Species 0 x 5 = 0			
5 Disco mariana		5		FACW				
6. Empetrum nigrum		5		FAC	Column Totals: <u>122</u> (A) <u>335</u> (B)			
7.		0			Prevalence Index = B/A = <u>2.746</u>			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10		0			✓ Prevalence Index is ≤3.0			
	Total Cover: of Total Cover:	103	of Total Cove	r: <u>21</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
		10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
		5	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must			
				FAC	be present, unless disturbed or problematic.			
4					Plot size (radius, or length x width)			
5					% Cover of Wetland Bryophytes			
6					(Where applicable)			
7.					% Bare Ground 0			
8.					Total Cover of Bryophytes30			
9		0						
					Hydrophytic			
10	Total Cover:	16			Vegetation Present? Yes No			

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SOIL Sampling Point: SW15_T338_04

Profile Description: (Des	scribe to the depth	needed to docum		onfirm the ab		ators)		
Depth (inches) Co	olor (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-2							Peat	
2-10							Mucky Peat	
10-12							Muck	
	Y 4/1						Silty Clay Loam	
12-10	7/1						Sity Ciay Loans	
¹ Type: C=Concentra	tion. D=Depleti				_		nnel. M=Matrix	
Hydric Soil Indicate	ors:		Indicators for P	roblematio	Hydric So	oils: ³		
Histosol or Histel	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Underlying Layer							
Histic Epipedon (A2)		Alaska Alpine					
Hydrogen Sulfide	(A4)		☐ Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	s)
Thick Dark Surface	ce (A12)		3 One indicator of	f buduanbud	is vesstatio		non indicator of watland b	duology
Alaska Gleyed (A	13)		and an appropria	ite landscap	e position r	nust be pri	nary indicator of wetland h	ydrology,
Alaska Redox (A1	•		4 Give details of o	color change	e in Remark	· ·		
Alaska Gleyed Po	res (A15)		GIVE details of t	color change	e iii Kemark			
Restrictive Layer (if pr	=							
Type: silty clay lo		ost					Hydric Soil Present?	? Yes ⊙ No O
Depth (inches): 12	., 24							
HYDROLOGY								
Wetland Hydrology	Indicators:						Secondary Indic	rators (two or more are required)
Primary Indicators (a	ny one is suffici	ent)					Water Stair	ned Leaves (B9)
Surface Water (A	•		Inundation \	Visible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)
	High Water Table (A2) Sparsely Vegetated Concave Surface (B						Oxidized R	nizospheres along Living Roots (C3)
Saturation (A3)			Marl Deposit	ts (B15)				Reduced Iron (C4)
Water Marks (B1			Hydrogen Si				Salt Deposi	
Sediment Deposi	` ,		☐ Dry-Season					Stressed Plants (D1)
Drift Deposits (B.	•		U Other (Expla	in in Rema	rks)			c Position (D2)
Algal Mat or Crus	. ,						✓ Shallow Aq	` '
Iron Deposits (B	•						✓ FAC-neutra	raphic Relief (D4)
Surface Soil Crac							▼ FAC-Heutra	Test (D5)
Surface Water Preser		O No ●	Depth (inch	oc).				
		No O		•		Watle.	nd Hadualana Busani	t? Yes • No O
Water Table Present			Depth (inch	es): 8		wetia	nd Hydrology Present	t? Yes S NO C
Saturation Present? (includes capillary fri	nge) Yes	● No ○	Depth (inch	es): 4				
Describe Recorded Da	ta (stream gau	ge, monitor well	, aerial photos, pre	evious inspe	ction) if ava	ailable:		
Remarks:								
silty clay loam at 12 in	. seasonal frost	at 24						
Sincy Clay IDalli at 12 II	, эсаэнна 11050	ul ZT						

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