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			AFORM	- Alaska Region	
Project/Site: Susitna-Watana Hydroelectric Project	Bc	prough/City:	Matanusk	a-Susitna Borough Sampling	Date: 23-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point:	SW15_T307_02
Investigator(s): WAD, SCB	L	andform (hill	side, terrac	e, hummocks etc.): upper slo	ре
Local relief (concave, convex, none): convex		Slope: 10.5	%/ 6.0	Elevation:	
Subregion : Interior Alaska Mountains	Lat.:			Long.:	Datum: WGS84
Soil Map Unit Name:				NWI classification:	Upland
	gnificantly	Yes disturbed? oblematic?		(If no, explain in Remarks. ormal Circumstances" present? ded, explain any answers in Ren	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map show	ing sam	pling point	locations	, transects, important feat	ures, etc.
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       No       No         Wetland Hydrology Present?       Yes       No       No         Remarks:			the Sam thin a W	pled Area etland? Yes 🔾 No	۲
VEGETATION - Use scientific names of plants. Lis	t all spec	cies in the	plot.		
	Abaaluta	Dominant	Tudiester	Dominance Test worksheet:	
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC:	2 (A)
				Total Number of Dominant	
2				Species Across All Strata:	(B)
4.				Percent of dominant Species That Are OBL, FACW, or FAC:	100.0%(A/B)
5.				Prevalence Index worksheet:	
Total Cover:					fultiply by:
Sapling/Shrub Stratum 50% of Total Cover:	) 20% c	of Total Cover:	0	OBL Species 0.1	x 1 =
1. Betula nana	40	$\checkmark$	FAC	FACW Species <u>11.1</u>	x 2 = <u>22.20</u>
2. Vaccinium uliginosum	30	$\checkmark$	FAC	FAC Species 87	x 3 =261
3. Empetrum nigrum	10		FAC	FACU Species 5	x 4 =20
4. Rhododendron tomentosum	10		FACW	UPL Species 0	x 5 = 0
5. Picea glauca	5		FACU	Column Totals: 103.2	(A) 303.3 (B)
6. Vaccinium vitis-idaea	5		FAC		(A) <u> </u>
7. Salix pulchra	1		FACW	Prevalence Index = B/A =	2.939
8. Andromeda polifolia(IAM)	0.1		OBL	Hydrophytic Vegetation Indica	tors
9. Salix fuscescens	0.1		FACW	Dominance Test is > 50%	.0151
10.	0		FACW	✓ Prevalence Index is $\leq 3.0$	
Total Cover:	101			Morphological Adaptations (	
_Herb Stratum50% of Total Cover:	0.6 20%			Remarks or on a separate she	<i>'</i> .
1. Carex bigelowii	2		FAC	Problematic Hydrophytic Vege	
2	0			<sup>1</sup> Indicators of hydric soil and wetla	nd hydrology must
3	0			be present, unless disturbed or pro	Duematic.
4	0			Plot size (radius, or length x width	) _10m
5	0			% Cover of Wetland Bryophytes	
6	0			(Where applicable)	
7	0			% Bare Ground	0
8	0			Total Cover of Bryophytes	5
Q	0				

low open birch ericaceous shrub with scattered patches of dwarf picgla. betnan approx 40 cm tall. patches of lichens, minimal moss cover. Less than 5% total herb cover, so no herb species considered dominant. Remarks:

20% of Total Cover:

 $\square$ 

Hydrophytic Vegetation

Present?

0.4

Yes 💿 No 🔾

0

2

1

**Total Cover:** 

50% of Total Cover:

9.

10.

Profile Description	on: (Describe to		eeded to docu	ment the indicator or c			cators)				
Depth Matrix				dox Featu		1	 Texture	Demostra			
(inches) 0-1	Color (m	oist)	%	Color (moist)	%	Type <sup>1</sup>	2	Hemic Organics	Remarks		
1-2								Sapric Organics			
		2 5/2									
2-5	7.5YR	2.5/2	100					Loam	high organic content		
5-7	5YR	2.5/1	100					Coarse Sand	lots of organic staining		
7-12	7.5YR	2.5/3	100					Sand	95% small pebbles		
								<u></u>			
<sup>1</sup> Type: C=Con	centration. D	=Depletior	n. RM=Reduc	ed Matrix <sup>2</sup> Locatio	on: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix			
Hydric Soil In	dicators:			Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color C	Change (TA	4) <sup>4</sup>		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipedon (A2)				Alaska Alpine swales (TA5)				Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remar	(S)		
	Surface (A12	2)		3 One indicator o	f hydrophy	tic vegetatic	on one prin	nary indicator of wetland I	a a construction of the co		
Alaska Gley				and an appropria					iya ology,		
Alaska Red	. ,			<sup>4</sup> Give details of	color chang	e in Remarl	ks				
Alaska Gley	ed Pores (A	15)			j						
Restrictive Laye	r (if present)	:									
Туре:								Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO Wetland Hydr		-						Consider to the			
Primary Indicat			nt)					Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
Surface Wa		15 Sumeler			Visible on A	erial Image	erv (B7)	Drainage Patterns (B10)			
Surface Water (A1)       Inundation Visible on Aerial In         High Water Table (A2)       Sparsely Vegetated Concave S						-			hizospheres along Living Roots (C3)		
Saturation	Saturation (A3)     Marl Deposits (B15)							Presence of	of Reduced Iron (C4)		
🗌 Water Mar	Water Marks (B1) Hydrogen Sulfide Odor (C1)							Salt Depos	sits (C5)		
Sediment I	Deposits (B2) Dry-Season Water Table (C2)								Stressed Plants (D1)		
Drift Depo				Other (Explain in Remarks)							
	or Crust (B4)			Shallow Aquitard (D3)							
Iron Depos	. ,							_	graphic Relief (D4)		
	il Cracks (B6	)							al Test (D5)		
Field Observa Surface Water		Vec	No 🖲	Depth (inch	oc);						
					,		Watle		it? Yes 🔾 No 🖲		
Water Table Pi Saturation Pres				Depth (inch	es):		wetia	nd Hydrology Preser	ilf tes U no 👁		
(includes capill		Yes 🤇	🔾 No 🖲	Depth (inch	es):						
Describe Record	led Data (str	eam gauge	, monitor we	ell, aerial photos, pre	evious inspe	ection) if av	ailable:				
Remarks:											
no hydrology in	dicators										