WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 28-Aug-15		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T333_03		
Investigator(s): AFW		Landform (hills	side, terrac	e, hummocks etc.): Toeslope		
Local relief (concave, convex, none): concave		Slope: 0.0	% / 0.0	° Elevation:		
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
Soil Map Unit Name:				NWI classification: PEM1E		
Are climatic/hydrologic conditions on the site typical for this til	me of ves	ar? Yes	No ○	(If no, explain in Remarks.)		
		tly disturbed?	Are "N	ormal Circumstances" present? Yes No		
	•	problematic?		ded, explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map show		mpling point	iocations	s, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes No No			tha Cam	wlad Avan		
Hydric Soil Present? Yes No C		ne Sampled Area				
Wetland Hydrology Present? Yes ● No C)	WI	thin a W	etland? res S NO S		
Remarks:						
			• .			
VEGETATION -Use scientific names of plants. Li	st all sp	ecies in the p	plot.			
	Absolute		Indicator	Dominance Test worksheet:		
Tree Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)		
1.			-	Total Number of Dominant		
2.		. 📙		Species Across All Strata: (B)		
3. 4.	_	- <u> </u>		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)		
5.	_	- 📙				
Total Cover:				Prevalence Index worksheet:		
		– % of Total Cover:	0	Total % Cover of: Multiply by:		
				OBL Species 70 x 1 = 70		
1. Salix pulchra	0.1	- 📙	FACW	FACW Species 2.1 x 2 = 4.2 FAC Species 3 x 3 = 9		
2.	^	- 📙		FAC Species 3 x 3 = 9 FACU Species 0 x 4 = 0		
3	0	. <u> </u>		UPL Species 0 x 5 = 0		
		- 📙				
	0	-		Column Totals: <u>75.1</u> (A) <u>83.2</u> (B)		
6	0			Prevalence Index = B/A =1.108_		
8.	0	_		Hydrophytic Vegetation Indicators:		
9.	0			✓ Dominance Test is > 50%		
10.	0			✓ Prevalence Index is ≤3.0		
Total Cover:				☐ Morphological Adaptations (Provide supporting data in		
Herb Stratum 50% of Total Cover:	0.05 20	0% of Total Cover:	0.02	Remarks or on a separate sheet)		
Carex aquatilis	_ 35	_	OBL	Problematic Hydrophytic Vegetation (Explain)		
Eriophorum angustifolium	25	_	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3. Arctophila fulva		- 📙	OBL	be present, unless disturbed or problematic.		
4. Rhodiola integrifolia		- 📙	FAC	Plot size (radius, or length x width)		
5. Arctagrostis latifolia		- 📙	FACW	% Cover of Wetland Bryophytes		
6		- 📙		(Where applicable)		
7		-		% Bare Ground35		
8		-		Total Cover of Bryophytes 60		
9		- H				
10Total Cover:		Hydrophytic Vegetation				
50% of Total Cover:			15	Present? Yes No		
Remarks: arclat on micro-highs, non-vascular component	L IIIOSUY S	spriagrium. <5%	SHIUD COV	er, thus no shrub species considered dominant.		

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SOIL Sampling Point: SW15_T333_03

Profile Descript	ion: (Describe to	the depth n	eeded to docu	ment the indicator or co	nfirm the at	osence of indic	ators)		10mii: 51115_1555_55
Depth		Matrix			dox Feat	ures	-	_	
(inches)	Color (me	oist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3			100					Peat	-
3-8			100					Mucky Peat	
8-17	2.5Y	3/2	100					Sandy Loam	gravel and cobbles
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	ic Hydric So	oils: ³		
Histosol o	r Histel (A1)			Alaska Color C	hange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epip	pedon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remark	rs)
Thick Darl	k Surface (A12	2)		3 One indicator of	: budeanbu	tia vaaatatia		non indicator of watland b	v dvalagy.
Alaska Gle				and an appropria				mary indicator of wetland h esent	lydrology,
Alaska Re	` ,			4 Give details of c	olor chanc	ıe in Remark	rc		
☐ Alaska Gle	eyed Pores (A1	15)		GIVE details of e	olor chang	je ili Remark			
Restrictive Laye	er (if present):	:							
Type:								Hydric Soil Present	? Yes • No O
Depth (incl	nes):								
Remarks:									
HYDROLO	GY								
Wetland Hyd	rology Indic	ators:						Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one	is sufficien	it)					Water Stai	ned Leaves (B9)
✓ Surface V	Vater (A1)			☐ Inundation V	isible on A	Aerial Image	ry (B7)	Drainage P	Patterns (B10)
✓ High Wat	. ,			Sparsely Veg	etated Co	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)
✓ Saturation	. ,			Marl Deposit	. ,				f Reduced Iron (C4)
Water Ma				Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	
	Deposits (B2))		☐ Dry-Season \					Stressed Plants (D1)
☐ Drift Depo				U Other (Expla	in in Rema	arks)			ic Position (D2)
	or Crust (B4)								juitard (D3)
✓ Iron Depo									graphic Relief (D4)
Field Observa	oil Cracks (B6))					<u> </u>	✓ FAC-neutra	ii Test (D5)
Surface Wate		Yes (No O	Depth (inche	ac). 1				
			No O		-		Watla	nd Uudualaau Duaaan	t? Yes • No O
Water Table F				Depth (inche	es): 1		Wellai	nd Hydrology Presen	tr res 🙂 No 🖰
(includes capi		Yes (No O	Depth (inche	es): 0				
Describe Recor	ded Data (stre	eam gauge	, monitor we	ell, aerial photos, pre	vious insp	ection) if ava	ailable:		
Remarks:									
small micro lov	vs with surface	e water.							

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