WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 24-Aug-15
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T334_01
	igator(s): ERT, TXC		Landform (hil	lside, terrac	ce, hummocks etc.): Footslope
Local	relief (concave, convex, none): hummocky		Slope: 7.0	% / 4.0	· ·
Subre	gion : Interior Alaska Mountains	Lat			Long.: Datum: WGS84
	ap Unit Name:				NWI classification: PSS1/EM1B
	matic/hydrologic conditions on the site typical for this t	imo of v	voar? Ves	● No ○	
			antly disturbed?		Normal Circumstances" present? Yes No
		-	ly problematic?		eded, explain any answers in Remarks.)
	• • •				,
SUM	MARY OF FINDINGS - Attach site map sho	wing s	sampling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset	_		
	Hydric Soil Present? Yes ● No (\supset			npled Area
	Wetland Hydrology Present? Yes No	\supset	w	ithin a W	/etland? Yes ● No ○
Rem	arks:				
/EG	ETATION -Use scientific names of plants. L	ist all	species in the	plot.	
		Absol	ute Dominant	Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Co		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.		_			That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
2.		_			Species Across All Strata: 4 (B)
3.		_			Percent of dominant Species
4.		_			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover)		Total % Cover of: Multiply by:
Sa	oling/Shrub Stratum 50% of Total Cover:	0	20% of Total Cover	:0	OBL Species 22 x 1 = 22
1.	Betula glandulosa	_ 1	.8	FAC	FACW Species 20 x 2 = 40
2.	Salix pulchra	1	.0	FACW	FAC Species <u>25</u> x 3 = <u>75</u>
3.	Vaccinium uliginosum		5	FAC	FACU Species 0 x 4 = 0
4.	Andromeda polifolia(IAM)		2	OBL	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Salix reticulata		2 📙	FAC	Column Totals: <u>67</u> (A) <u>137</u> (B)
6.			<u> </u>		Prevalence Index = B/A =
7.			0		
8.			<u> </u>		Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50% ✓ Prevalence Index is < 3.0
10.	Total Cove				
He	rb Stratum_ 50% of Total Cover:			r: 7.4	Morphological Adaptations (Plovide supporting data in Remarks or on a separate sheet)
	Eriophorum angustifolium		20	OBL	Problematic Hydrophytic Vegetation (Explain)
	Carex membranacea		10	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.		_	0		be present, unless disturbed or problematic.
			0		Diet size (wedius on length y width)
	•		0		Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 0
Э.			0		% Cover of Wetland Bryophytes (Where applicable)
_					
6.			0		% Bare Ground 0
6. 7.			0		% Bare Ground 0 Total Cover of Bryophytes 5
6. 7. 8.			0		
6. 7. 8. 9.			0		Total Cover of Bryophytes Hydrophytic
6. 7. 8. 9.		r: _3	0		Total Cover of Bryophytes 5

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SOIL Sampling Point: SW15_T334_01

(inches) Col	or (moist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-5	or (moise)		Color (moise)		Турс	200	Peat	Oi
5-7							Mucky Peat	Oe
7-11 5	3/2						Fine Sandy Loam	Cg, one pocket of coarse sand comprising
11-16							Mucky Peat	
Type: C=Concentrat	on. D=Depletion	on. RM=Reduc	ed Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
lydric Soil Indicato	rs:		Indicators for Pr	oblematic	Hydric So	oils: ³		
Histosol or Histel (Alaska Color Ch		4		Alaska Gleyed Withou	it Hue 5Y or Redder
✓ Histic Epipedon (A	•		Alaska Alpine s		-		Underlying Layer	
Hydrogen Sulfide	-		Alaska Redox V	With 2.5Y H	ue		Other (Explain in Ren	narks)
Thick Dark Surface	(A12)		3 One indicator of	hydrophyti	s vogotatio	n one prin	nary indicator of wetlar	ad hydrology
Alaska Gleyed (A1	-		and an appropriat					ia flydrology,
 Alaska Redox (A1⁴ Alaska Gleyed Por	,		4 Give details of co	olor change	in Remark	S		
·								
estrictive Layer (if pre	sent):						Undrie Ceil Drose	ent? Yes • No O
Type:								
Type: Depth (inches): 7-1	1						Hydric Soil Prese	entr res e no e
Depth (inches): 7-1	1						nyaric son Prese	entr tes © NO C
Depth (inches): 7-1		na-dinyridol n	resence of reduced in	on indicate	s hydric so	le	nyanc son Prese	entr tes © NO C
Depth (inches): 7-1		ıa-dipyridol. pı	resence of reduced in	ron indicate	s hydric soi	ls.	nyunc son Prese	entr tes e no e
Depth (inches): 7-1		a-dipyridol. pi	resence of reduced in	on indicate	s hydric soi	ls.	nyunc son Prese	entr tes © NO C
Depth (inches): 7-1		ıa-dipyridol. pı	resence of reduced in	ron indicate:	s hydric soi	ls.	nyunc son Prese	intr tes © NO O
Depth (inches): 7-1		a-dipyridol. pi	resence of reduced in	ron indicate	s hydric soi	ls.	nyunc son Prese	entr Tes © NO C
Depth (inches): 7-1 emarks: -11in: positive reactio	i to alpha, alph	a-dipyridol. pi	resence of reduced in	ron indicate	s hydric soi	ls.		indicators (two or more are required)
Depth (inches): 7-1 emarks: -11in: positive reactio	to alpha, alph		resence of reduced in	ron indicate	s hydric soi	is.	_Secondary I	
Depth (inches): 7-1 emarks: -11in: positive reactio YDROLOGY Vetland Hydrology	n to alpha, alph ndicators: one is sufficie		resence of reduced in				_Secondary I	indicators (two or more are required) Stained Leaves (B9) Je Patterns (B10)
Depth (inches): 7-1 emarks: 11in: positive reactio YDROLOGY /etland Hydrology in the second	nto alpha, alph ndicators: / one is sufficie		☐ Inundation V	isible on Ae etated Cond	erial Imager	y (B7)	_Secondary I Water S Drainag Oxidize	indicators (two or more are required) Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C3)
Depth (inches): 7-1 emarks: -11in: positive reactio YDROLOGY Vetland Hydrology (Primary Indicators (an Surface Water (A) High Water Table Saturation (A3)	nto alpha, alph ndicators: / one is sufficie		☐ Inundation V ☐ Sparsely Veg ☐ Marl Deposits	isible on Ae etated Cond s (B15)	erial Imagei cave Surfac	y (B7)	Secondary I Water S Drainag Oxidize	indicators (two or more are required) Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C3) se of Reduced Iron (C4)
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