WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Aug-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T161_06
Investig	gator(s): BAB		Landform (hill	side, terrac	e, hummocks etc.): Bench
Local r	elief (concave, convex, none): hummocky		Slope:	%/ 5.2	e * Elevation: 132
Subrea	ion : Interior Alaska Mountains	Lat ·	63.331386940		Long.: -148.507527738 Datum: NAD83
-		Lut	03.331300940		
	p Unit Name:				NWI classification: Upland
Are V Are V	natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology IARY OF FINDINGS - Attach site map sh	significant naturally p	ly disturbed? problematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes \bigcirc No	ullet	_		
	Hydric Soil Present? Yes ○ No	ullet			pled Area
	Wetland Hydrology Present? Yes No	0	wi	ithin a W	etland? Yes \bigcirc No $oldsymbol{igen}$
	arks: well vegetated bench that is relatively wet com		rrounding slope	s	
	TATION - Use scientific names of plants.	List all sp Absolute % Cover	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC:(A/B)
5.		0			Prevalence Index worksheet:
	Total Cove	er: 0	_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species $0 \times 1 = 0$
1	Salix stolonifera	8	\checkmark	UPL	FACW Species $3 \times 2 = 6$
1. 2.			-	FACU	FAC Species <u>16</u> x 3 = <u>48</u>
3.			-	FACU	FACU Species $6 \times 4 = 24$
4.				FAC	UPL Species 15 x 5 = 75
5.			-		
6.			-		Column Totals: <u>40</u> (A) <u>153</u> (B)
7.			-		Prevalence Index = B/A =
8.		0			Hydrophytic Vegetation Indicators:
9.		0			Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
	Total Coversion 50% of Total Covers		% of Total Cover	: 2.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Polemonium pulcherrimum	3		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Antonnorio monoconholo			UPL	¹ Indicators of hydric soil and wetland hydrology must
3.	Artemisia frigida	2		UPL	be present, unless disturbed or problematic.
4.	Rhodiola integrifolia	8		FAC	Plot size (radius, or length y width) 10m
5.	Trisetum spicatum	1		FAC	
6.	Petasites frigidus	2	_	FACW	(Where applicable)
7.	Carex bigelowii	4		FAC	% Bare Ground _3
8.	Carex podocarpa	2		FAC	Total Cover of Bryophytes _50
9.	Arctagrostis latifolia	1		FACW	
10.	Anemone parviflora	4		FACU	Hydrophytic
	Total Cove	-	-		Vegetation Procent? Yes No •
	50% of Total Cover:	14.5 209	% of Total Cover	5.8	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	b Stratum 50% of Total Cover: Polemonium pulcherrimum Antennaria monocephala Artemisia frigida Rhodiola integrifolia Trisetum spicatum Petasites frigidus Carex bigelowii Carex podocarpa Arctagrostis latifolia Anemone parviflora	5.5 20 3 2 2 8 1 2 8 1 2 4 2 4 2 4 2 4 2 4 2 4 2 1 4 2 1 4 2 1 2 4 2 1 2 4 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 8 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 1 2 2 2 2 2 8 1 2 2 2 2 2 2 2 2 2 2 2 2 2		UPL UPL FAC FAC FAC FAC FAC FAC FAC FAC FACU	Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes (Where applicable) <u>3</u> % Bare Ground <u>3</u> Total Cover of Bryophytes <u>50</u>

(inches)		Matrix			Red	ox Featu			_	
(inches)	Color (m	oist)	%	Color (m	oist)	%	Type ¹	<u>Loc</u> ²	Texture	Remarks
0-1			100						Fibric Organics	Fibric Organics
1-5	10YR	4/2	85	10YR	4/6	15	C	PL	Silt Loam	few sub rounded to ang gravel and cobbles
5-17	2.5Y	5/2	80	10YR	4/4	20	C	PL	Sandy Loam	few sub rounded to ang gravel and cobbles
										_
<u></u>								-		
	,									
¹ Type: C=Concent	tration. D	=Depletion	. RM=Redu	ced Matrix	² Location	: PL=Pore	E Lining. RO	=Root Cha	annel. M=Matrix	
					ors for Pro					
Hydric Soil Indic					ka Color Ch		4	JIIS.] Alaska Gleyed Without	due 5V or Pedder
Histic Epipedor	. ,				ka Alpine sv		-		Underlying Layer	
Hydrogen Sulfi					ka Redox W	•			Other (Explain in Rema	rks)
Thick Dark Sur	. ,	')								
Alaska Gleyed	•	-)		³ One ir	ndicator of l	nydrophyt	ic vegetatio	n, one prir	mary indicator of wetland	hydrology,
Alaska Redox (• •			and an	appropriate	andscap	e position i	nust be pr	esent	
Alaska Gleyed	Pores (A1	.5)		⁴ Give o	letails of co	lor change	e in Remarl	S		
Restrictive Layer (if	f present):	:								
Туре:	. ,									
									Hydric Soil Presen	t? Yes 🔾 No 🖲
Depth (inches):	:								Hydric Soil Presen	t? Yes ∪ No ●
Depth (inches): Remarks:	:								Hydric Soil Presen	t? Yes ○ No ♥
Remarks:		w 2.5Y Hue	e as vegeta	tion is not h	ydrophytic	and no pr	imary wetla	and hydrolo	Hydric Soil Presen	
Remarks:		w 2.5Y Hue	e as vegeta	tion is not h	ydrophytic	and no pr	imary wetla	and hydrolo		
Remarks:		w 2.5Y Hue	e as vegeta	tion is not h	ydrophytic	and no pr	imary wetla	and hydrolo		
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Remarks: cannot apply bAlask HYDROLOGY Wetland Hydrolog	ka Redox v V vgy Indica	ators:		tion is not h	ydrophytic	and no pr	imary wetla	and hydrolo	ogy indicators were obser	ved. licators (two or more are required)
Remarks: cannot apply bAlask HYDROLOGY Wetland Hydrolog Primary Indicators	ka Redox	ators:							bgy indicators were observed by the secondary Incomposition of	ved. licators (two or more are required) ained Leaves (B9)
Remarks: cannot apply bAlask HYDROLOGY Wetland Hydrolog Primary Indicators	ka Redox v r gy Indica (any one r (A1)	ators:			undation Vis	sible on A	erial Image	ry (B7)		ved. licators (two or more are required) ained Leaves (B9) Patterns (B10)
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Remarks:

during dry season. could be saturated most of the summer (frost and melting). looks like this has water flowing through occasionally. bpv above has drainage channels as well. could be seasonally saturated. N facing slope probably most of the time a snowbed.