WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Boroug	h Sampling Date	e: 02-Aug-13
Applicant/Owner: Alaska Energy Authority		Sa	ampling Point:	SW13_T162_01
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.	.): Ridgetop	
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation:	1605	
Subregion : Interior Alaska Mountains	Lat.: 63.129327059	Long.: -148.10	3582621	Datum: WGS84
Soil Map Unit Name:		NWI c	lassification: PSS	1B
	of year? Yes (ificantly disturbed? urally problematic?	 No (If no, explain the image of the image of	looo procont.	es 💿 No 🔾 s.)
SUMMARY OF FINDINGS - Attach site map showing	ig sampling point	locations, transects, im	portant feature	s, etc.
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$				
Hydric Soil Present? Yes $oldsymbol{O}$ No $oldsymbol{O}$		the Sampled Area	Yes 🖲 No 🔾	
Wetland Hydrology Present? Yes 💿 No 🔿	WI	thin a Wetland?		

Remarks: ridge top, concave depression.

VEGETATION - Use scientific names of plants. List all species in the plot.

	Absol	ute Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Co		Status	Number of Dominant Species
1.		0		That are OBL, FACW, or FAC: (A)
2.		0		Total Number of Dominant
		<u> </u>		Species Across All Strata: (B)
3.		0		Percent of dominant Species
4.		0		That Are OBL, FACW, or FAC: (A/B)
5.		0		Prevalence Index worksheet:
Total Cov	/er:	<u>1 </u>		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0	20% of Total Cover:	0	OBL Species x 1 =
1. Salix polaris		35 🗸	FACW	FACW Species <u>45</u> x 2 = <u>90</u>
2. Salix arctica		1	FACU	FAC Species <u>15</u> x 3 = <u>45</u>
3.		0		FACU Species $1 \times 4 = 4$
1		0		UPL Species $1 \times 5 = 5$
• 5		0		(140)
		0		Column Totals: <u>67</u> (A) <u>149</u> (B)
6 7		0		Prevalence Index = B/A =2224_
8.		0		Hydrophytic Vegetation Indicators:
9.		0		✓ Dominance Test is > 50%
10.		0		✓ Prevalence Index is ≤ 3.0
Total Cov		6		
Herb Stratum 50% of Total Cover:		20% of Total Cover:	7.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Eriophorum angustifolium		5	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Antennaria monocephala		1	UPL	¹ Indicators of hydric soil and wetland hydrology must
3. Poa arctica		2	FAC	be present, unless disturbed or problematic.
4. Carex microchaeta		3	FAC	
5. Carex bigelowii		10	FAC	Plot size (radius, or length x width) <u>10m</u>
6. Carex membranacea		5	FACW	% Cover of Wetland Bryophytes (Where applicable)
7. Petasites frigidus		2	FACW	% Bare Ground
8. Arctagrostis latifolia		3	FACW	Total Cover of Bryophytes 35
9		0		<u></u>
10.		0		Hydrophytic
Total Cov		1		Vegetation
		<u>.</u>		
50% of Total Cover:	-	20% of Total Cover:	6.2	Present? Yes No

Depth		Matrix			Red	ox Featu			_	
(inches)	Color (m	oist)	%	Color (I	moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1			100						Fibric Organics	
1-3	10YR	3/4	100						Loamy Sand	
3-7	2.5Y	4/1	60	5YR	5/8	40	RM	PL	Loamy Sand	
7-15	10YR	4/4	100						Sand	
								-		_
Type: C=Con	centration. D	=Depletior	n. RM=Redu	iced Matrix	² Location	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	
ydric Soil Ir	dicators			Indica	tors for Pro	blemati	c Hydric S	oils: ³		
-	Histel (A1)				ska Color Ch		4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipe	. ,				ska Alpine sv		-		Underlying Layer	
-	Sulfide (A4)			🖌 Alas	ska Redox W	(ith 2.5Y H	Hue		Other (Explain in Rema	rks)
- · ·	Surface (A12	2)		-						
Alaska Gley	yed (A13)				indicator of I				mary indicator of wetland resent	hydrology,
Alaska Red	lox (A14)						•	•		
Alaska Gley	yed Pores (A1	15)		+ Give	details of co	lor chang	e in Remark	<s< td=""><td></td><td></td></s<>		
estrictive Laye	er (if present)	:								
Type: seas	onal frost lay	er, able to	punch thro	ugh.					Hydric Soil Presen	it? Yes 🖲 No 🔾
		nocks.								
emarks: tive frost boils	s, small humr	nocks.								
emarks: tive frost boils YDROLO	s, small humr								Cocondors In	disekers (huo on mero pro zonijad)
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YDROLO retland Hydr	s, small humr GY rology Indic tors (any one	ators:			nundation Vi	sible on A	erial Image	ry (B7)	Water St	ained Leaves (B9)
YDROLO (etland Hydr rimary Indicat Surface W	s, small humr GY rology Indic tors (any one	ators:	it)		nundation Vis		-		Water St	
	s, small humr GY rology Indic tors (any one fater (A1) er Table (A2)	ators:	it)	S	nundation Vi: parsely Vege larl Deposits	tated Cor	-		Water St	ained Leaves (B9) Patterns (B10)
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Paraks: tive frost boils PDROLOO Petland Hydr Surface W High Wate Saturation Water Mar	GY ology Indic tors (any one fater (A1) er Table (A2) (A3)	ators: is sufficier		□ S □ M □ H	parsely Vege larl Deposits	etated Cor (B15) fide Odor	ncave Surfa		Water St Drainage Oxidized Presence Salt Depu	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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