WETLAND DETERMINATION DATA FORM - Alaska Region

منامم۸	ct/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13			
Applic	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T179_04					
Invest	igator(s): WAD, RWM	e, hummocks etc.): hillside						
	relief (concave, convex, none): hummocky		° Elevation: 1216					
	gion : Interior Alaska Mountains		63.150485754		Long.: -148.331441879 Datum: WGS84			
	ap Unit Name:	03.130403734		NWI classification: Upland				
	· -		n Van	No ○				
	imatic/hydrologic conditions on the site typical for this til Vegetation \Box , Soil \Box , or Hydrology \Box s	•	disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
		-			omai oriodnotanoco prosent:			
Are	Vegetation ☐ , Soil ☐ , or Hydrology ☐ ।	naturany pr	oblematic?	(if nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes O No 💽)	_					
	Hydric Soil Present? Yes No •			Is the Sampled Area				
	Wetland Hydrology Present? Yes O No •)	within a Wetland? Yes ○ No ●					
Ren	narks: relict mineral cored frost features.							
1101	marks. Tellet milleral cored frost reatures.							
VEG	ETATION -Use scientific names of plants. Li	st all spe	cies in the	olot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tre	ee Stratum	% Cover	Species?	Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 2 (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: 50.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Covers		Total % Cover of: Multiply by:					
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>0.1</u> x 1 = <u>0.1</u>			
1.	Empetrum nigrum	45	✓	FAC	FACW Species 5 x 2 = 10			
2.	Cassiope tetragona	15	✓	FACU	FAC Species <u>55</u> x 3 = <u>165</u>			
2. 3.	Saliy polarie		✓	FACU				
		5			FAC Species <u>55</u> x 3 = <u>165</u>			
3.	Salix polaris	5 5		FACW	FAC Species 55 x 3 = 165 FACU Species 25 x 4 = 100 UPL Species 0.1 x 5 = 0.500			
3. 4.	Salix polaris Vaccinium vitis-idaea	5 3		FACW	FAC Species 55 x 3 = 165 FACU Species 25 x 4 = 100 UPL Species 0.1 x 5 = 0.500 Column Totals: 85.2 (A) 275.6 (B)			
3. 4. 5.	Salix polaris Vaccinium vitis-idaea Loiseleuria procumbens	5 5 3 0		FACW	FAC Species 55 x 3 = 165 FACU Species 25 x 4 = 100 UPL Species 0.1 x 5 = 0.500			
3. 4. 5. 6.	Salix polaris Vaccinium vitis-idaea Loiseleuria procumbens	5 5 3 0 0		FACW	FAC Species 55 x 3 = 165 FACU Species 25 x 4 = 100 UPL Species 0.1 x 5 = 0.500 Column Totals: 85.2 (A) 275.6 (B)			
3. 4. 5. 6. 7.	Salix polaris Vaccinium vitis-idaea Loiseleuria procumbens	5 5 3 0 0 0		FACW	FAC Species 55 x 3 = 165 FACU Species 25 x 4 = 100 UPL Species 0.1 x 5 = 0.500 Column Totals: 85.2 (A) 275.6 (B) Prevalence Index = B/A = 3.235			
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3. 4. 5. 6. 7. 8. 9.	Salix polaris Vaccinium vitis-idaea Loiseleuria procumbens Total Covers	5 5 3 0 0 0 0 0		FACW FAC FACU	FAC Species 55 $\times 3 = 165$ FACU Species 25 $\times 4 = 100$ UPL Species 0.1 $\times 5 = 0.500$ Column Totals: 85.2 (A) 275.6 (B) Prevalence Index = B/A = 3.235 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in			
3. 4. 5. 6. 7. 8. 9. 10.	Salix polaris Vaccinium vitis-idaea Loiseleuria procumbens Total Covers rb Stratum 50% of Total Covers	5 5 3 0 0 0 0 0 0 0 73 36.5 20%	G of Total Cover	FACW FAC FACU	FAC Species 55 $\times 3 = 165$ FACU Species 25 $\times 4 = 100$ UPL Species 0.1 $\times 5 = 0.500$ Column Totals: 85.2 (A) 275.6 (B) Prevalence Index = B/A = 3.235 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)			
3. 4. 5. 6. 7. 8. 9. 10.	Salix polaris Vaccinium vitis-idaea Loiseleuria procumbens Total Cover: 50% of Total Cover: Festuca altaica	5 5 3 0 0 0 0 0 0 0 73 36.5 20%		FACW FAC FACU	FAC Species 55 $\times 3 = 165$ FACU Species 25 $\times 4 = 100$ UPL Species 0.1 $\times 5 = 0.500$ Column Totals: 85.2 (A) 275.6 (B) Prevalence Index = B/A = 3.235 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain)			
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SOIL Sampling Point: SW13 T179 04

Profile Descripti	ion: (Describe to	the denth ne	eded to docu	ment the inc	dicator or con	firm the ah	sence of indic	rators)	r	10mc. 5w15_11/5_04
		Matrix	edea to doca.	Henr the m		ox Featu		.aluis)		
Depth (inches)	Color (mo	oist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
05			100					_	Fibric Organics	
.5-12	10YR	3/4	100					-	Sand	
12-18	10YR	4/3	70	5YR	4/6	30			Sandy Loam	
					·					
	-					-				
						-				
Type: C=Cor	ncentration. D=		RM=Reduc	ed Matrix	² Location	: PL=Por	 e Lining. RO	=Root Cha	nnel. M=Matrix	
					ors for Pro					
Hydric Soil I	r Histel (A1)				ka Color Cha		4	olis.	Alaska Gleyed Without Hu	a 5V or Paddar
Histosol of	. ,				ka Alpine sv		-		Underlying Layer	ie 31 of Redder
	Sulfide (A4)				ka Redox W		-		Other (Explain in Remarks	5)
	Surface (A12))		_						
Alaska Gle	eyed (A13)				ndicator of h appropriate				nary indicator of wetland hy	ydrology,
Alaska Red	dox (A14)					•	•	•	Socie	
Alaska Gle	eyed Pores (A1	5)		4 Give o	details of col	lor change	e in Remark	KS		
Restrictive Laye	er (if present):									
Type: rock	(Hydric Soil Present?	Yes O No 💿
Depth (inch	nes):									
Remarks:										
no hydric soil ir	ndicators obser	ved								
HYDROLO	<u>GY</u>									
Wetland Hyd	rology Indica	tors:							_Secondary Indic	ators (two or more are required)
Primary Indica		is sufficient	.)							ed Leaves (B9)
Surface W					undation Vis		-	, , ,	_	atterns (B10)
	er Table (A2)				arsely Vege		icave Surfa	ce (B8)		nizospheres along Living Roots (C3)
Saturation					arl Deposits	. ,				Reduced Iron (C4)
☐ Water Ma					drogen Sulf				Salt Deposi	
	Deposits (B2)				y-Season W					Stressed Plants (D1)
☐ Drift Depo				∐ Ut	her (Explain	i în Kema	rks)			Position (D2)
☐ Algai Mat	or Crust (B4)								☐ Shallow Aqu	uitard (D3) raphic Relief (D4)
	oil Cracks (B6)								FAC-neutral	
Field Observa										Test (D3)
Surface Water		Yes C	No •	De	epth (inches	s):				
Water Table P			No •		epth (inches			Wetlar	nd Hydrology Present	t? Yes O No 💿
Saturation Pre			No 💿			•		•••••	id 11, 410.0g, 1122	100 - 110
(includes capi		Yes \bigcirc	No 🕓	De	epth (inches	i): 				
Describe Recor	ded Data (stre	am gauge,	monitor we	:ll, aerial p	hotos, previ	ious inspe	ction) if av	ailable:		
Remarks:										
no hydrology ir	ndicators obser	ved								

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