WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12								
Applic	ant/Owner: Alaska Energy Authority		Sampling Point: SW12_T53_08										
	igator(s): CTS, EKJ	e, hummocks etc.): Mountainslope											
	relief (concave, convex, none): concave	5 ° Elevation: 658											
	gion : Southcentral Alaska	l at ·	Slope: 62.809618236		Long.: -149.067935721 Datum: NAD83								
		Lat	02.009010230)									
	ap Unit Name:		- V	<u> </u>	NWI classification: Upland								
	Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No												
			-		iorniai oli odriotarioco present:								
Are v	/egetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)								
SUM	MARY OF FINDINGS - Attach site map sho	wing sar	mpling point	locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes No)		41 0	unland Auran								
	Hydric Soil Present? Yes ○ No ④	•		the Sam									
	Wetland Hydrology Present? Yes O No	•	Wi	within a Wetland? Yes ○ No ●									
Rem	arks: Stca w a few Picgla overtopping near plot												
VEG	ETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.									
		Absolute			Dominance Test worksheet:								
Tre	ee Stratum	% Cover		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: 3 (B)								
3.					Percent of dominant Species								
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)								
5.		0			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 0 x 1 = 0								
1	Alnus viridis	90	~	FAC	FACW Species 7 x 2 = 14								
	Pihos tristo			FAC	FAC Species 117.2 x 3 = 351.6								
	Linnaea borealis	0.1		FACU	FACU Species 36.1 x 4 = 144.4								
4.		^	_		UPL Species <u>0</u> x 5 = <u>0</u>								
5.		^			Column Totals: <u>160.3</u> (A) <u>510</u> (B)								
6.													
7.		^			Prevalence Index = B/A = 3.182								
8.		0			Hydrophytic Vegetation Indicators:								
9.		0	_ 🗆		✓ Dominance Test is > 50%								
10.		0	_		Prevalence Index is ≤3.0								
	Total Cover				☐ Morphological Adaptations ¹ (Provide supporting data in								
He	rb Stratum 50% of Total Cover:		_		Remarks or on a separate sheet)								
1.	Dryopteris expansa		. 💆	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Sanguisorba canadensis			FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
3.	Spinulum annotinum		. 📙	FACU	be present, unless disturbed of problematic.								
4.	Trientalis europaea		-	FACU	Plot size (radius, or length x width)								
5.	Mertensia paniculata	$-\frac{1}{0.1}$	·	FACU FAC	% Cover of Wetland Bryophytes								
6.	Equisetum sylvaticum Rubus pedatus		. 📙	FAC	(Where applicable)								
7. 8.	Cornus canadensis	2		FACU	% Bare Ground 2								
9.	Calamagrostis canadensis	- <u>2</u> 25		FAC	Total Cover of Bryophytes								
	Rubus arcticus	0.1	·	FAC	Undrankstia								
			Hydrophytic										
10.		r: 692			Vegetation								
	Total Cover		- 6 of Total Cover:	_13.84_	Vegetation Present? Yes ● No ○								

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SOIL Sampling Point: SW12_T53_08

Duefile Descript	: (Dil t- t	de			-e Hl				7. cc. 311 12_133_03		
		ne depth no 1atrix	eedea to uocu	ment the indicator or co	nfirm the at lox Feati		ators)				
Depth (inches)	Color (moi		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	LOIDI (IIIO	30)	100	color (moist)	_/0	Турс	LUC	Fibric Organics			
3-10		2/1	85					Silt Loam	15% angular cobble		
					-			-			
10-14	10YR	2/2	85					Loam	sand fine to coarse w 15% angular gravel		
14-16	10YR	2/1	90					Silt Loam	10% angular gravel		
									s		
					-						
1 _{Type:} C=Co	ncentration D-	Denletion	DM-Dedu	ced Matrix ² Location	o: DI –Doi	re Lining PC	-Poot Cha	unnel M-Matriy	. ———		
		Depletion	. Ki-i-keduk			_		inner. m=maux			
Hydric Soil I				Indicators for Pr		4	oils:	1			
	r Histel (A1)			Alaska Color Cl		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
	edon (A2)			Alaska Alpine s	•	•		Other (Explain in Remarl	ve)		
	Sulfide (A4)			Alaska Redox V	Vitn 2.5Y	Hue		Oulei (Explain in Keman	(S)		
	Surface (A12)			³ One indicator of	hydrophy	tic vegetatio	n, one prim	mary indicator of wetland h	nydrology,		
Alaska Gle				and an appropriat					7		
Alaska Red	. ,	•		4 Give details of co	olor chanc	e in Remark	S				
Alaska Gle	eyed Pores (A15	')					_				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes O No 💿		
Depth (incl	nes):										
Remarks:											
no hydric soil ir	ndicators										
	CV										
HYDROLO		.						C d. T. d.			
Wetland Hyd	rology Indica itors (any one is		+\					Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
		s sumciem	L)	Taura dation V	:=: = = = = /	\' = T	(DZ)		Patterns (B10)		
	Vater (A1)			Inundation V		_			hizospheres along Living Roots (C3)		
☐ High Water Table (A2)☐ Saturation (A3)				Sparsely Veg		ncave Surrac	e (B8)		of Reduced Iron (C4)		
Water Ma				Marl Deposits	` '	(C1)		Salt Depos	` ,		
	Deposits (B2)			Hydrogen Su				_	Stressed Plants (D1)		
Drift Depo	, ,			Dry-Season \					ic Position (D2)		
	or Crust (B4)			U Other (Explai	n in kema	arks)			quitard (D3)		
Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa								TAC fledute	ii rest (D3)		
Surface Wate		Vec (No •	Depth (inche	c).						
				, ,	•						
Water Table F		Yes 🤇	No •	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capi		Yes C	No 💿	Depth (inche	s):						
Describe Recor	ded Data (strea	am gauge,	, monitor we	ell, aerial photos, prev	ious insp	ection) if ava	ilable:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											

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