WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 24-Jun-12			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T07_08			
Invest	igator(s): JGK		Landform (hillside, terrace, hummocks etc.): Floodplain					
	relief (concave, convex, none): flat		Slope: 8.7 % / 5.0 ° Elevation: 495					
Subre	gion : Interior Alaska Mountains	Lat ·	62.831399908		Long.: -148.262979972 Datum: WGS84			
	ap Unit Name:		02.001000000		NWI classification: PSS1/EM1C			
	imatic/hydrologic conditions on the site typical for this ti	ima of voor	2 Vec	● No ○	(If no, explain in Remarks.)			
		-	y disturbed?		Iormal Circumstances" present? Yes No			
		-	roblematic?		eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No							
	Hydric Soil Present? Yes No C		Is the Sampled Area					
	Wetland Hydrology Present? Yes No C		within a Wetland? Yes ● No ○					
Ren	narks: Soils meet criteria for Alaska Redox with 2.5Y H	مال						
IXCI	marks. Solis meet chteria for Alaska Redox With 2.51 F	iue						
VEG	ETATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.				
	·	Absolute	Dominout	Tudiostou	Dominance Test worksheet:			
Tre	ee Stratum	Absolute % Cover	Dominant Species?	Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 4 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	:0			Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0			
1.	Salix commutata	35	✓	FAC	FACW Species 0 x 2 = 0			
2.	Dasinhora fruticosa			FAC	FAC Species 84 x 3 = 252			
3.	Alnus viridis ssp. crispa			FAC	FACU Species 13 x 4 = 52			
4.	Salix alaxensis			FAC	UPL Species0 x 5 =0			
5.	Populus balsamifera	5		FACU	Column Totals: 97 (A) 304 (B)			
6.	Picea glauca			FACU				
7.		5		FAC	Prevalence Index = B/A = 3.134			
8.	Vaccinium uliginosum	5		FAC	Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
	Total Cover		/ (T . LC		☐ Morphological Adaptations ¹ (Provide supporting data in			
_He	rb Stratum 50% of Total Cover:	31.5 20%	or rotal Cover		Remarks or on a separate sheet)			
1.				FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.			✓	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Conquisorho mon-icoli			FAC	be present, unless disturbed or problematic.			
4.			✓	FACU	Plot size (radius, or length x width)			
5. 6.	Valariana agnitata			FAC	% Cover of Wetland Bryophytes			
				1.70	(Where applicable)			
					% Bare Ground			
ι Ο.					Total Cover of Bryophytes			
					Hydrophytic			
9.		U						
9.	Total Cover				Vegetation Present? Yes No			

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SOIL Sampling Point: SW12_T07_08

	ded to docume	ocument the indicator or confirm the absence of indicators) Redox Features											
Depth (inches)	Matrix Color (moist)		%	Color (mo			Type ¹	Loc ²	- Texture	Remarks			
0-5	Coloi (illo	ist)	80	COIOI (IIIO	ist)	-70	Турс	LUC	Hemic Organics	some sand w 20% roots			
5-15	2.5Y	3/2		 10YR	4/6	10		PL	Fine Loamy Sand				
5-13			90	TUTK -	4/0			PL	Tine Loanly Sand				
										,			
						-		-					
						-		-	-				
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils. ³												
Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder						
Histic Epipedon (A2) Alaska Alpine swales (TA5)						5)		Underlying Layer					
Hydrogen	Sulfide (A4)		[✓ Alaska	Redox W	ith 2.5Y H	lue		Other (Explain in Remarl	(S)			
☐ Thick Dark	Surface (A12))											
Alaska Gle	yed (A13)						ic vegetatio e position r		mary indicator of wetland h	nydrology,			
Alaska Rec				anu an a	ppropriate	e ianuscap	e position i	nust be pre	esent				
Alaska Gle	yed Pores (A1	5)		4 Give de	tails of col	lor change	e in Remark	S					
Restrictive Laye	er (if present):												
Type:									Hydric Soil Present	? Yes • No O			
Depth (inch	nes):								•				
Remarks:													
4-5 1 in layers of													
HYDROLO	GY												
Wetland Hydi		tors:							Secondary Indi	cators (two or more are required)			
Primary Indica									Water Stained Leaves (B9)				
Surface W	/ater (A1)			Inur	ndation Vis	sible on Ae	erial Imagei	v (B7)		Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)			
Saturation (A3) Marl Deposits ((==)		of Reduced Iron (C4)				
						. ,	(C1)		Salt Depos	sits (C5)			
	Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2)								_	Stressed Plants (D1)			
✓ Drift Depo				_	er (Explain					ic Position (D2)			
	or Crust (B4)				or (Explain		,			quitard (D3)			
☐ Iron Depo										graphic Relief (D4)			
	oil Cracks (B6)									al Test (D5)			
Field Observa	, ,												
Surface Water		Yes \bigcirc	No 💿	Dep	th (inches	s):							
Water Table P		Yes 〇	_	·	•	•		Wetla	nd Hydrology Presen	it? Yes • No O			
				рер	th (inches	5):		Wetia	ila Hyarology Fresen	it: les 🔾 NO 🔾			
Saturation Pre (includes capil		Yes O	No 🖲	Dep	th (inches	s):							
Describe Record	ded Data (stre	am gauge, i	monitor well,	aerial pho	otos, previ	ious inspe	ction) if ava	ilable:					
Remarks:													
Evidence of high water (trapped debris in vegetation)													

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