WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T113_07		
nvesti	gator(s): WAD, RWM		Landform (hill	side, terrac	e, hummocks etc.): creek bank		
ocal ı	elief (concave, convex, none): concave		Slope: <u>1.7 % / 1.0 ° Elevation:</u> <u>1057</u>				
Subreg	ion : Interior Alaska Mountains	Lat.:	62.763008118	3	Long.: -147.63038826 Datum: WGS84		
oil Ma	p Unit Name:				NWI classification: PEM1B		
Are V		significantly naturally pr	disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) s, transects, important features, etc.		
Rem	Hydrophytic Vegetation Present? Yes No No No Wetland Hydrology Present? Yes No No Arks: calcan meadow adjacent to lake outlet stream))		the Sam thin a W	pled Area etland? Yes No		
/EGE	ETATION - Use scientific names of plants. I	ist all spe	cies in the	plot.			
	-	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e 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: 2 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC:100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cove	r: <u> </u>			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species0 x 1 =0		
1.	Salix pulchra	10	✓	FACW	FACW Species 17.1 x 2 = 34.20		
2.					FAC Species		
3.		_			FACU Species 3 x 4 =12		
4.					UPL Species 0 x 5 = 0		
5.		_			Column Totals: 98.1 (A) 280.2 (B)		
6.							
7.					Prevalence Index = B/A =		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
Her	Total Cove b Stratum 50% of Total Cover: _		of Total Cover	:2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Calamagrostis canadensis	75	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Petasites frigidus	4		FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Sanguisorba canadensis	3		FACW	be present, unless disturbed or problematic.		
4.	Equisetum arvense	-		FAC	Plot size (radius, or length x width)		
5.	Mertensia paniculata			FACU	% Cover of Wetland Bryophytes		
6.	Bistorta plumosa			FACU	(Where applicable)		
7.	Stellaria calycantha			FACW	% Bare Ground		
^					Total Cover of Bryophytes		
8.		U					
9.			1 1				
9.					Hydrophytic Vegetation		
9.		0 r: <u>88.1</u>	of Total Cover:	17.62	Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW13_T113_07

1-9		% 100 4/3 90 4/2 60	5YR	(moist)	<u>%</u>	Type ¹	<u>Loc</u> ²	Texture Fibric Organics	Remarks Fibric Organics	
1-9		4/3 90						Fibric Organics	Fibric Organics	
				3/4						
9-14	10YR	4/2 60			10	RM	PL	Sapric Organics	with silt	
			2.5YR	3/6	40	RM	PL	Silt Loam	with lots of organics	
			_							
					-		-			
Type: C=Concenti	ration. D=De	epletion. RM=R	educed Matr	rix ² Location	: PL=Pore	 e Linina. RC	=Root Cha	annel. M=Matrix	-	
Hydric Soil Indica				ators for Pro		_				
Histosol or Histo				aska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epipedon	. ,			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen Sulfic				aska Redox W	•	•		Other (Explain in Remark	rs)	
Thick Dark Surf	. ,									
Alaska Gleyed (, ,							mary indicator of wetland h	ydrology,	
Alaska Redox (A			anu	an appropriat	е іапиѕсар	e position i	nust be pr	esent		
Alaska Gleyed P	ores (A15)		⁴ Giv	e details of co	olor change	e in Remark	(S			
estrictive Layer (if p	present):								0 0	
Type:								Hydric Soil Present	? Yes ● No O	
Depth (inches):										
YDROLOGY										
Vetland Hydrolog	-							Secondary Indi	cators (two or more are required)	
Primary Indicators (ufficient)							ned Leaves (B9)	
Surface Water (A1)				Inundation Vi		_		_	Patterns (B10)	
High Water Table (A2)				Sparsely Vege		cave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits	. ,				of Reduced Iron (C4)	
Water Marks (B1) Sediment Deposits (B2)				Hydrogen Sul				Salt Depos		
Drift Deposits (B3)				Dry-Season V					Stressed Plants (D1) ic Position (D2)	
_ ` `	•			Other (Explain	n in Kemai	rks)			juitard (D3)	
☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)								graphic Relief (D4)		
Surface Soil Cra	•							✓ FAC-neutra	, , , ,	
ield Observation	. ,							The neutro	11 1000 (100)	
Surface Water Pres		Yes O No	lacksquare	Depth (inches	s):					
Water Table Preser		Yes O No			,		Wetla	nd Hydrology Presen	t? Yes ● No ○	
Saturation Present?				Depth (inches	•		- Vi Ctiu	na myarology mesen	c. 163 © 110 ©	
(includes capillary f		Yes O No		Depth (inches	s):					
escribe Recorded D	Oata (stream	gauge, monito	or well, aeria	l photos, prev	ious inspe	ction) if ava	ailable:			
temarks:										
temarks: nly secondary hydr	ology indica	tors observed								

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