WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T182_02							
	gator(s): JER		Landform (hill	side, terrac	e, hummocks etc.): Flat							
	elief (concave, convex, none): strang		Slope:	% / 1.2								
	ion : Interior Alaska Mountains	l at ·	 62.873453379		Long.: -148.599591016 Datum: NAD83							
		Lut	02.07 343337 8	,								
	p Unit Name:		0 V	■ N= ○	NWI classification: PSS1/EM1E							
	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											
		•	•		ormal oli carrictarioco procent.							
Are v	egetation . , Soil . , or Hydrology .	naturally	problematic?	(If nee	ded, explain any answers in Remarks.)							
SUMN	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes No											
	Hydric Soil Present? Yes ● No ○		Is the Sampled Area									
	Wetland Hydrology Present? Yes No ○	thin a W	nin a Wetland? Yes 🂿 No 🔾									
	irks: wide margin of infilling pond, old pond is hgwst,		rgin is hgwsbt									
VEGE	TATION - Use scientific names of plants. L	ist all sn	acies in the	nlot								
	Ose scientific flames of plants. L				Dominance Test worksheet:							
Tree	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC: 6 (A)							
2.		0			Total Number of Dominant Species Across All Strata: 6 (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 Cover	: 0			Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species 18 x 1 = 18							
1	Betula nana	10		FAC	FACW Species 26 x 2 = 52							
2.	Vaccinium uliginosum	20		FAC	FAC Species <u>55</u> x 3 = <u>165</u>							
3.	Empetrum nigrum	15		FAC	FACU Species 0 x 4 = 0							
4.	Andromeda polifolia (IAM)	3		OBL	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Salix fuscescens	5		FACW	Column Totals: 99 (A) 235 (B)							
6.	Rhododendron tomentosum	2		FACW								
7.	Salix pulchra	1		FACW	Prevalence Index = B/A = 2.374							
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							
	b Stratum 50% of Total Cover:		% of Total Cover		Remarks or on a separate sheet)							
	Rubus chamaemorus			FACW	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Pedicularis labradorica		- <u>'</u>	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
3.	Equisetum arvense	5	_	FAC	be present, unless disturbed of problematic.							
4.	Carex aquatilis Eriophorum angustifolium		- V	OBL	Plot size (radius, or length x width) <u>10m</u>							
5.	Senecio lugens		- 🖺	FAC	% Cover of Wetland Bryophytes							
6. 7.	Sanguisorba canadensis		-	FACW	(Where applicable)							
8.	Dodecatheon frigidum	3	-	FACW	% Bare Ground Total Cover of Bryophytes							
9.	Festuca altaica	1	- 🗀	FAC	Total Cover of Bryophytes							
10.	Valeriana capitata	3		FAC	Hydrophytic							
	Total Cover	: 43	_		Vegetation							
			_ % of Total Cover:	8.6	Present? Yes • No ·							
Rem		ers, artno			ur .1, some sedges just emerging carex sp 5, hylspl 20,							

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SOIL Sampling Point: SW13_T182_02

·	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators Matrix Redox Features						ators)			
Depth (inches)	Color (moi	st)	% C	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-11			100	,		-77-		Fibric Organics		
				-						
								-		
1 Type: C=Co	ncentration D=	Denletion R	M=Reduced	Matrix ² Location	o: PI =Por	- Lining RC	=Root Cha	nnel M=Matrix		
Hydric Soil 1		Depiction. N		ndicators for Pr				Tillel. 14-14du ix		
_ ·				Alaska Color Cl		4)ii3.	Maska Clayed Without H	uo EV or Roddor	
	or Histel (A1)			_		-		Alaska Gleyed Without H Underlying Layer	ue 51 or Redder	
	pedon (A2)			☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)						
	Sulfide (A4)			_ Alaska Nedox V	VIUI 2.51 1	iue		, outer (Explain in Heilian	۵,	
	k Surface (A12)		3	One indicator of	hydrophyt	ic vegetatio	n, one prim	nary indicator of wetland h	ydrology,	
	eyed (A13)			and an appropriat						
	edox (A14)	`		Give details of co	olor change	e in Remark	S			
	eyed Pores (A15)								
	ver (if present):									
Type: fros								Hydric Soil Present	? Yes ● No O	
Depth (inc	nes): 11									
HYDROLC	OGY									
Wetland Hyd	Irology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	s sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface V	Water (A1)			☐ Inundation V	isible on A	erial Imager	ry (B7)	Drainage F	Patterns (B10)	
✓ High Water Table (A2)				☐ Sparsely Veg	etated Cor	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)					s (B15)			Presence o	f Reduced Iron (C4)	
	☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)							☐ Salt Depos	its (C5)	
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)								Stressed Plants (D1)	
	osits (B3)			U Other (Explai	in in Rema	rks)			ic Position (D2)	
	t or Crust (B4)							✓ Shallow Ac		
	osits (B5)							_	graphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	I Test (D5)	
Field Observ										
Surface Wate	er Present?	Yes		Depth (inche	s): 1					
Water Table	Present?	Yes 💿	No \bigcirc	Depth (inche	s): 0		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pr (includes cap		Yes	No	Depth (inche	es): 0					
		am gauge, m	ionitor well, a	eerial photos, prev	vious inspe	ction) if ava	ilable:			
- I										
Remarks:										

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