WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough	/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-13						
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T154_05									
Investigator(s): BAB Landform (hillside, terrace, hummocks etc.): Hillside												
Local relief (concave, convex, none): hummocky Slope: % / 2.2 ° Elevation: 115												
	ion: Interior Alaska Mountains	l at ·	 63.2372			Long.: -148.378646504 Datum: NAD83						
_												
Soil Map Unit Name: NWI classification: Upland Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no. explain in Remarks.)												
	natic/hydrologic conditions on the site typical for this t	-				(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○						
		significan	-			omai on amatanaca present:						
Are V	egetation U , Soil U , or Hydrology U	naturally	problema	itic'?	(If nee	eded, explain any answers in Remarks.)						
SUM	MARY OF FINDINGS - Attach site map sho	owing sa	mpling	point	locations	s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes No	\supset				1.14						
	Hydric Soil Present? Yes O No	lacksquare		Is the Sampled Area within a Wetland? Yes ○ No ●								
	Wetland Hydrology Present? Yes O No	•		wit	thin a W	etland? Yes UNO S						
Rema	arks: Small scattered patches of graminoid rich willow	stands in	line with	the slo	pe. They h	have a very pink signature on rapid eye.						
VEGE	TATION - Use scientific names of plants. L	ist all sr	ecies ir	n the r	olot							
	- Coc solentine names of plants.	Absolut				Dominance Test worksheet:						
Tree	e Stratum	% Cove		inant cies?	Indicator Status	Number of Dominant Species						
1.		0				That are OBL, FACW, or FAC: (A)						
2.		0	_			Total Number of Dominant Species Across All Strata: 2 (B)						
3.			_			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>0</u>				Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total	Cover:	0	OBL Species 0 x 1 = 0						
1	Salix pulchra	25		✓	FACW	FACW Species 48 x 2 = 96						
	Vaccinium uliginosum	- - 7	_		FAC	FAC Species 16.2 x 3 = 48.60						
	Empetrum nigrum		_		FAC	FACU Species 5 x 4 = 20						
	Vaccinium vitis-idaea	2			FAC	UPL Species 0.1 x 5 = 0.500						
5.						Column Totals: <u>69.3</u> (A) <u>165.1</u> (B)						
6.			_									
7.		•				Prevalence Index = B/A = 2.382						
8.		0				Hydrophytic Vegetation Indicators:						
9.		0	_			✓ Dominance Test is > 50%						
10.		0	_			✓ Prevalence Index is ≤3.0						
	Total Cove					☐ Morphological Adaptations ¹ (Provide supporting data in						
Her	b Stratum 50% of Total Cover:	18.5 20			7.4	Remarks or on a separate sheet)						
1.	Arctagrostis latifolia	20	_	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Artemisia norvegica	4	_		FACU	Indicators of hydric soil and wetland hydrology must						
3.	Sanguisorba canadensis	3	_		FACW	be present, unless disturbed or problematic.						
4.	Cornus suecica		_		FAC	Plot size (radius, or length x width)						
5.	Carex bigelowii	- 1	_		FAC	% Cover of Wetland Bryophytes						
6.	Rubus arcticus (IAM)		_		FACU	(Where applicable)						
7.	Rhodiola integrifolia		_		FAC FAC	% Bare Ground						
8.	Aconitum delphiniifolium	$-\frac{0.1}{0.1}$	_		FAC	Total Cover of Bryophytes						
9.	Gentiana glauca		_									
10.	·		_		———							
				Cover:	6.46	Present? Yes No						
_		13.13				I .						
10.	Polemonium pulcherrimum Total Cover: 50% of Total Cover: arks:		_	Cover:		Hydrophytic Vegetation Present? Yes No						

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SOIL Sampling Point: SW13_T154_05

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)					
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	Color (IIIo	ist)	100	Coloi (illoist)		Туре	LUC	Fibric Organics	T.C.II.C.			
3-6			100					Hemic Organics				
-												
6-17	10YR	3/3	100					Sandy Loam	round to ang gravel to stones			
					_							
							-					
								N-				
¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
		э сріссіоні										
Hydric Soil I				Indicators for Pr		4	oils:	1				
	Histosol or Histel (A1) Alaska Color Change (TA4)							☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
Histic Epip	. ,			Alaska Alpine s	-	-		Other (Explain in Remarks)				
	Sulfide (A4)			Alaska Redox \	With 2.5Y F	lue		J Other (Explain in Remark	35)			
	Surface (A12))		3 One indicator of	f hydronhyt	ic vegetatio	n one nrin	nary indicator of wetland h	ydrology			
Alaska Gle				and an appropria					ydrology,			
Alaska Red	. ,	->		⁴ Give details of c	color change	e in Remark	s					
	yed Pores (A15) 										
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi		tors:						Secondary Indi	cators (two or more are required)			
Primary Indica								Water Stained Leaves (B9)				
☐ Surface W				☐ Inundation \	/isible on A	erial Imager	v (B7)					
High Water Table (A2)				Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				☐ Marl Deposit		icave Sarrae	.c (50)	Presence of Reduced Iron (C4)				
Water Marks (B1)				Hydrogen Su	. ,	(C1)		Salt Deposits (C5)				
	Deposits (B2)								Stressed Plants (D1)			
	□ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Drift Deposits (B3) □ Other (Explain in Remarks)								ic Position (D2)			
	or Crust (B4)					,			uitard (D3)			
	Iron Deposits (B5)								raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutra				
Field Observa	ations:											
Surface Water	r Present?	Yes \bigcirc	No 💿	Depth (inche	es):							
Water Table P	Present?	Yes 🔾	No 💿	Depth (inche	-c).		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre	esent?				•			, ,,				
(includes capi		Yes O	No 🖭	Depth (inche	es):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hyd	drology indicate	ors observed										

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