## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_02
	igator(s): JGK		Landform (hill	side, terrac	e, hummocks etc.): Hillside
Local	relief (concave, convex, none): undulating		Slope:	% / 18.5	
Subre	gion : Southcentral Alaska	lat: 6	62.792478192		Long.: -148.810835735 Datum: NAD83
			32.132410132	- 1	
	ap Unit Name:		. V	No ○	NWI classification: Upland
Are '	imatic/hydrologic conditions on the site typical for this Vegetation  , Soil  , or Hydrology  , Vegetation  , Soil  , or Hydrology    MARY OF FINDINGS - Attach site map sh	significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Ioded, explain any answers in Remarks.)  Ioded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes No	•			
	Hydric Soil Present? Yes No		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes ● No		wi	thin a W	etland? Yes ○ No •
Rem	arks:	<u> </u>			
	ETATION - Use scientific names of plants.	Absolute	Dominant	Indicator	Dominance Test worksheet:
	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
	Picea glauca			FACU	Total Number of Dominant
2.					Species Across All Strata:3(B)
3.					Percent of dominant Species
4. 5.					That Are OBL, FACW, or FAC: 33.3% (A/B)
5.	Tatal Cav				Prevalence Index worksheet:
_	Total Cover		of Total Covers		Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0.5 20%	of Total Cover:	0.2	OBL Species x 1 =
1.	Alnus viridis		<b>✓</b>	FAC	FACW Species 0 x 2 = 0
2.				FACU	FACUS passing 2 x 3 = 210.6
3.				FACU	FACU Species 31.1 x 4 = 124.4  UPL Species 0 x 5 = 0
4.					
5.					Column Totals: <u>101.3</u> (A) <u>335</u> (B)
6. 7.		0			Prevalence Index = B/A = 3.307
					Undershit Vocatation Indicators
8. 9.					Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
10.			$\Box$		☐ Prevalence Index is ≤3.0
	Total Cover: 50% of Total Cover:		of Total Cover	: 16.02	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
-	Cystopteris fragilis	10	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Trientalis europaea		<b>✓</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis	0.1		FAC	be present, unless disturbed or problematic.
4.	Equisetum sylvaticum	0.1		FAC	Plot size (radius, or length x width) 10m
5.		_			Plot size (radius, or length x width)
		0			(Where applicable)
					% Bare Ground
8.					Total Cover of Bryophytes
9.		0			Hydrophytic
9.					
9.	Total Cover		of Total Covers	4.04	Vegetation Present?  Yes No   No

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SOIL Sampling Point: SW12\_T29\_02

Drofile Descript	ion: (Dossriba to t	the depth n	anded to decur	ant the indicator or co	nfirm the above	nco of indicate	orc)		
		me deptn n <b>1atrix</b>	eeded to docui	nent the indicator or co	ntirm the abse		ors)		
Depth (inches)	Color (moi			Color (moist)			Loc <sup>2</sup>	Texture	Remarks
0-1.5				color (moise)	·	Турс	LUC	Fibric Organics	
1.5-6	10YR	3/3	90					Clay Loam	1 in sandy band @ base large subang gra
6-12	10YR	3/3	70					Sandy Clay Loam	
	101K	3/3						Salidy Clay Loalli	large subang gravel and woody detr
12-18									Large subang gravel and sand (1-2 in grav
1 <sub>Type</sub> · C=Cor	ncentration D=	:Denletion	RM=Reduce	ed Matrix <sup>2</sup> Location	n· PI =Pore	Lining RC=F	Root Cha	nnel M=Matrix	
		Берісцоп	THE REGUE					THE TITIES IN	
Hydric Soil I				Indicators for Pr	4	4	s:		
l —	r Histel (A1)			Alaska Color C				Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
	edon (A2)			Alaska Alpine s	` '			Other (Explain in Remark	ks)
l — · · ·	Sulfide (A4)			Alaska Redux V	Miui 2.31 fiu	ie		Other (Explain in Remain	,
Alaska Gle	C Surface (A12)			<sup>3</sup> One indicator of	hydrophytic	vegetation,	one prim	nary indicator of wetland h	hydrology,
Alaska Gle				and an appropria					
	eyed Pores (A15	5)		4 Give details of o	olor change i	in Remarks			
		·)							
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	:? Yes O No 🖲
Depth (incl	nes):								
Remarks:						_			
Presence of wa	ter @ 7 in likely	y seasona	l large round	led boulders and co	bbles on surf	face			
HYDROLO	GY								
HYDROLO Wetland Hyd		tors:						_Secondary Indi	icators (two or more are required)
Wetland Hyd			t)					Water Stai	ined Leaves (B9)
Wetland Hyd Primary Indica Surface W	rology Indicar stors (any one is Vater (A1)		t)	☐ Inundation V	/isible on Aer	ial Imagery	(B7)	Water Stai	
Wetland Hyd  Primary Indica  Surface W  ✓ High Wat	rology Indicated tors (any one is value (A1) er Table (A2)		t)	☐ Inundation V			. ,	Water Stai Drainage I Oxidized R	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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