WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Jun-12				
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T06_05				
	gator(s): SLI, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Gulch or Gully				
	elief (concave, convex, none): undulating		Slope:	%/ 8.9					
	· · · · · · · · · · · · · · · · · · ·								
	ion : Interior Alaska Mountains		62.827498161	10					
	p Unit Name:			<u> </u>	NWI classification: Upland				
Are V Are V SUMN	egetation , Soil , or Hydrology r	significantly naturally proving same	v disturbed? oblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.				
	······································		ls	the Sam	pled Area				
	· · · · · · · · · · · · · · · · · · ·				hin a Wetland? Yes \bigcirc No \textcircled{ullet}				
	Wetland Hydrology Present? Yes O No 🖲 Irks: at base of steep upland slope, transitions to picez								
VEGE	TATION - Use scientific names of plants. Li	st all spe Absolute	cies in the Dominant	plot. Indicator	Dominance Test worksheet:				
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)				
1.	Picea glauca	10	\checkmark	FACU	Total Number of Dominant				
	Betula neoalaskana	7		FACU	Species Across All Strata: 7 (B)				
3.		0			Percent of dominant Species				
4.		0			That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cover:	17			Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	<u>8.5</u> 20%	of Total Cover:	3.4	OBL Species x 1 =				
1	Rosa acicularis	20	\checkmark	FACU	FACW Species 20 x 2 = 40				
2.	Vaccinium vitis-idaea	10		FAC	FAC Species 31 x 3 = 93				
3.	Linnaea borealis	10		FACU	FACU Species 66 x 4 = 264				
4.	Viburnum edule	7		FACU	UPL Species $0 \times 5 = 0$				
5.	Betula neoalaskana	5		FACU	Column Totals: 117 (A) 397 (B)				
6.	Ribes bracteosum	5		FAC					
7.	Vaccinium uliginosum	2		FAC	Prevalence Index = B/A = 3.393				
	Picea glauca	1		FACU	Hydrophytic Vegetation Indicators:				
	·	0			Dominance Test is > 50%				
		0		FACU	Prevalence Index is ≤3.0				
	Total Cover: b Stratum 50% of Total Cover:		of Total Cover	: 12	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Arctagrostis latifolia	20	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)				
	Cornus suecica	7	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must				
3.	Equisetum sylvaticum	5		FAC	be present, unless disturbed or problematic.				
4.	Rubus arcticus (IAM)	3		FACU					
5.	Equisetum arvense	2		FAC	Plot size (radius, or length x width) <u>10m</u>				
6.	Trientalis europaea	2		FACU	% Cover of Wetland Bryophytes (Where applicable)				
7.	Mertensia paniculata	1		FACU	% Bare Ground				
8.		0			Total Cover of Bryophytes				
9.		0							
		0			Hydrophytic				
	Total Cover:				Vegetation				
	50% of Total Cover:	20 20%	of Total Cover:	8	Present? Yes No 🖲				
Rem	arks: arclat id based on last season inflorescence. m	any snags	and dead dow	n trees.					

Profile Description: (Des	n: (Describe to the depth needed to doce Matrix			ument the indicator or confirm the absence of indicators) Redox Features				cators)	_		
<i>a</i> i ,	Color (moist)		%	Color (m	Color (moist)		Type ¹	Loc 2	Texture	Remarks	
0-2			100						Hemic Organics		
2-9 2.	.5Y	4/2	95	7.5YR	3/2	3	С	PL	Silty Clay Loam	2% fine roots	
9-10 2.	.5Y	5/2	80		-	20	C	PL	Silty Clay Loam	concentrations too faint to accurately color	
10-16 2.	.5Y	3+/2	100						Silty Clay Loam	-	
										-	
										_	
										_	
¹ Type: C=Concentrat	tion D=F	enletion	RM=Redi	iced Matrix	² Location	PI =Por	e Linina R	=Root Ch	annel M=Matrix		
		, cpictioni					c Hydric S				
Hydric Soil Indicate							4	olis:			
Histosol or Histel (A1) Alaska Color Change (TA4) Histic Epipedon (A2) Alaska Alpine swales (TA5)							Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
Hydrogen Sulfide	,				ka Redox V				Other (Explain in Remarks)		
Thick Dark Surfac	. ,										
Alaska Gleyed (A1	. ,			³ One ir	dicator of	hydrophy e landscai	tic vegetation	on, one prii must be pr	mary indicator of wetland	hydrology,	
Alaska Redox (A1	.4)								cocit		
Alaska Gleyed Por	res (A15)			4 Give d	etails of co	olor chang	e in Remarl	KS			
Restrictive Layer (if pro	esent):										
Туре:						Hydric Soil Presen	t? Yes 🔿 No 🖲				
Depth (inches):											
HYDROLOGY Wetland Hydrology	Indicat								Casan dama Tad	instant (the an arrange and a second d)	
Primary Indicators (ar										icators (two or more are required) ined Leaves (B9)	
Surface Water (A		<u>summercine</u>		Ini	Indation Vi	isible on A	erial Image	erv (B7)		Patterns (B10)	
High Water Table	,						-			Rhizospheres along Living Roots (C3)	
Saturation (A3)								()		of Reduced Iron (C4)	
Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)									sits (C5)		
	Sediment Deposits (B2)									r Stressed Plants (D1)	
Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)											
Algal Mat or Crust (B4)										,	
Iron Deposits (B5										graphic Relief (D4) al Test (D5)	
Field Observations:	. ,									al lest (D5)	
Surface Water Preser		$_{\rm Yes}$ \bigcirc	No 🖲	De	pth (inche	s):					
Water Table Present?		Yes 〇	-		pth (inche			Wetla	nd Hydrology Prese	nt? Yes 🔿 No 🖲	
Saturation Present? (includes capillary frir		Yes O			pth (inche					-	
Describe Recorded Dat		n aaude i	nonitor v	ell, aerial n	notos, prev	ious inspe	ection) if av	ailable:			
		gaage, I		ieny aeriar pi		.545 1150					
Remarks:											
ACHIGINS.											

no wetland hydrology indicators