WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	ite: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Denali Bo	rough Sampling Date: 06-Au	g-12
Applicant	/Owner: Alaska Energy Authority				Sampling Point: SW12_T0	4 03
 Investiga		L	_andform (hill	side, terrac	e, hummocks etc.): Valley bottom	
-	ef (concave, convex, none): flat		Slope:	%/ 1.9		
Subregio	n : Interior Alaska Mountains	Lat · 6	3.459408206	 \$1	Long.: -148.650185184 Datum: N	AD83
-	Unit Name:		JJ.+JJ+UU200		NWI classification: PEM1E	
			Voo	• No ()		
Are Veg Are Veg		ignificantly naturally pro	disturbed? bblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No eded, explain any answers in Remarks.) s, transects, important features, etc.	0
H	ydrophytic Vegetation Present? Yes $ullet$ No $igodom$					
H	ydric Soil Present? Yes ● No ◯				pled Area	
	/etland Hydrology Present? Yes ● No ○		wi	thin a W	'etland? Yes $ullet$ No $igodoldsymbol{ imes}$	
	s: Beaver-altered meadow, currently flooded, new ch ATION - Use scientific names of plants. Lis				lownstream of site, subarctic lowland grass mead	OW
	there ose scientifie numes of plants. El	-			Dominance Test worksheet:	
Tree S	Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species	
1.		0			That are OBL, FACW, or FAC:4	(A)
2.		0			Total Number of Dominant Species Across All Strata: 4	(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:				Total % Cover of: Multiply by:	
Saplin	g/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species <u>10</u> x 1 = <u>10</u>	
1. S	alix barclayi	10	\checkmark	FAC	FACW Species <u>10.1</u> x 2 = <u>20.20</u>	0
	etula nana	1		FAC	FAC Species x 3 =144.9	9
3. S	alix pulchra	10	\checkmark	FACW	FACU Species <u>2.2</u> x 4 = <u>8.8</u>	_
4. S	alix alaxensis	1		FAC	UPL Species x 5 =	
5. S	piraea stevenii	0.1		FACU	Column Totals: 70.6 (A) 183.9	9 (B)
6.		0				
7		0			Prevalence Index = B/A = <u>2.605</u>	
8.		0			Hydrophytic Vegetation Indicators:	
9.		0			Dominance Test is > 50%	
10		0			✓ Prevalence Index is \leq 3.0	
Herb S	Total Cover: Stratum50% of Total Cover:		of Total Cover	4.42	Morphological Adaptations ¹ (Provide supporting Remarks or on a separate sheet)	data in
1. C	alamagrostis canadensis	35	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2. F	olemonium acutiflorum	1		FAC	¹ Indicators of hydric soil and wetland hydrology must	:
3	Carex aquatilis	10	\checkmark	OBL	be present, unless disturbed or problematic.	
4. <u>C</u>	Carex membranacea	0.1		FACW	Plot size (radius, or length x width)10m	
5. <u>F</u>	Rumex arcticus	0.1		FAC	% Cover of Wetland Bryophytes 60	
	Chamaenerion angustifolium	2		FACU	(Where applicable)	
7. <u>L</u>	uzula parviflora	0.1		FAC	% Bare Ground10	
	ngelica lucida	0.1		FACU	Total Cover of Bryophytes 60	
9. <u>F</u>	Poa arctica	0.1		FAC		
10		0			Hydrophytic	
	Total Cover: 50% of Total Cover:2		of Total Cover	9.7	Vegetation Present? Yes • No ·	
D						
Remark	5.					

(inches)		Matrix				ox Featu		2	-	Barrada
0.1	Color (m	noist)	<u>%</u>	Color (n	noist)	%	Type ¹	_ Loc ²	Texture Fibric Organics	Remarks
0-1	10/0	2/1	100						Silt Loam	
1-3	10YR	3/1	80		·				-	20% roots, thin organic layers
3-5	10YR	2/2	80						Silt Loam	20% roots, thin organic layers
5-11	5Y	3/2	85	10YR	3/6	15	C	PL	Silt Loam	
11-16	5Y	2.5/2	100						Silt Loam	
	-									
	-									
¹ Type: C=Con	centration. D)=Depletior	n. RM=Red	uced Matrix	² Location	PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
Hydric Soil In	dicators			Indicat	ors for Pro	blemati	Hydric S	oils: ³		
Histosol or					ka Color Ch		4	ons. □	Alaska Gleyed Without	Hue 5V or Redder
Histosof of Histosof of Histosof of	. ,				ka Alpine sv				Underlying Layer	
	Sulfide (A4)				ka Redox W	•	,	\checkmark	Other (Explain in Rema	arks)
	Surface (A1	2)								
Alaska Gley	•	,							mary indicator of wetland	l hydrology,
Alaska Red					appropriate		•		esent	
Alaska Gley	/ed Pores (A	15)		⁴ Give of	letails of co	lor chang	e in Remarl	<s< td=""><td></td><td></td></s<>		
Restrictive Laye	r (if present)):								
Type:		,.							Hydric Soil Preser	nt? Yes $ullet$ No $igodom$
Depth (inch	es):									
Remarks: arge portions of	f site inunda	ted, assum	e hydric so	ils due to ini	undation an	d hydropl	nytic vegeta	ition		
	f site inunda	ted, assum	e hydric so	ils due to ini	undation an	d hydropł	nytic vegeta	ation		
		ted, assum	e hydric so	ils due to int	undation an	d hydropł	nytic vegeta	ition		
arge portions of HYDROLO(Wetland Hydr	GY ology Indic	cators:		ils due to int	undation an	d hydropł	nytic vegeta	ition	_Secondary In	dicators (two or more are required)
Arge portions of HYDROLOO Wetland Hydr Primary Indicat	GY ology Indic	cators:							Water St	cained Leaves (B9)
arge portions of IYDROLO(Wetland Hydr Primary Indicat Y Surface Wata	GY ology India cors (any one ater (A1)	cators: e is sufficier		In	undation Vis	sible on A	erial Image	ry (B7)	Water St	ained Leaves (B9) e Patterns (B10)
arge portions of IYDROLO(Wetland Hydr Primary Indicat Y Surface Wata Y High Wate	GY ology Indic ors (any one ater (A1) r Table (A2)	cators: e is sufficier		In Sp	undation Vis	sible on A tated Cor	erial Image	ry (B7)	Water St	ained Leaves (B9) e Patterns (B10) Rhizospheres along Living Roots (C3)
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