WETLAND DETERMINATION DATA FORM - Alaska Region

•	t/Site: Susitna-Watana Hydroelectric Project		Bor	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-13
	ant/Owner: Alaska Energy Authority				:	Sampling Point: SW13_T155_09
	gator(s): WAD, RWM					e, hummocks etc.): moat around base of drumlin
_ocal r	relief (concave, convex, none): concave		_ s	lope: 7.0	% / 4.0 -	1000
Subreg	gion : Interior Alaska Mountains	Lat	∴ <u>63</u>	3.214135528		Long.:148.428626776
	ap Unit Name:					NWI classification: PSS1B
Are V	matic/hydrologic conditions on the site typical for /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology	significa	antly o	disturbed? plematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydric Soil Present? Yes ●	No O No O No O drumlin featu	re.			pled Area etland? Yes [®] No ○
/EGE	ETATION - Use scientific names of plan	ts. List all s	speci	ies in the p	olot.	
		Absolu	ıte	Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.			0			Total Number of Dominant
2.			0			Species Across All Strata:6(B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 66.7% (A/B)
5.	Total	Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover	: _ 0 _ 2	20% of	f Total Cover:	0	OBL Species0 x 1 =0
1.	Salix pulchra	8	30	✓	FACW	FACW Species <u>87</u> x 2 = <u>174</u>
2.			0			FAC Species <u>20</u> x 3 = <u>60</u>
3.			0			FACU Species <u>15</u> x 4 = <u>60</u>
4.			0			UPL Species 0 x 5 = 0
5.			0			Column Totals: 122 (A) 294 (B)
6.			0			
7.			0			Prevalence Index = B/A = 2.410
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			Prevalence Index is ≤3.0
Her	Total 6 Stratum 50% of Total Cove) 20% o	of Total Cover:	16	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Polemonium acutiflorum		5	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Artemisia norvegica		5	~	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Sedum rosea		3		FAC	be present, unless disturbed or problematic.
4.	Petasites frigidus		5	V	FACW	Plot size (radius, or length x width)
5.	Calamagrostis canadensis		10	V	FAC	% Cover of Wetland Bryophytes
6.	Chamerion angustifolium		5		FACU	(Where applicable)
7.	Sanguisorba canadensis		2		FACU	% Bare Ground
8.	Rubus arcticus (IAM)		3 2		FACU	Total Cover of Bryophytes
9.	Rumex arcticus Mortonsia paniculata		2 2		FACU	
10.	Mertensia paniculata				I ACU	Hydrophytic Vegetation
	Total (50% of Total Cover		2 20% of	f Total Cover:	8.4	Present? Yes No
Rem				f Total Cover:	8.4	Present? Yes No

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SOIL Sampling Point: SW13_T155_09

	ion: (Describe to	the denth nee	dad to docume	ant the indi	cator or con	firm the abo	ence of indic	ators)		
		die depui nee Matrix	ueu to aoca	ant the man		ox Featu		ators		
Depth (inches)	Color (mo		%	Color (mo		%	Type ¹	Loc ²	Texture	Remarks
0-1		-	100						Fibric Organics	
1-6	5Y	2.5/1	90	10YR	4/4	10	RM	PL	Silty Clay Loam	
6-16	5Y	2.5/1	50	7.5YR	3/4	50			Silty Clay Loam	
									· ·	
¹Type: C=Cor	ncentration. D	=Depletion.					_		annel. M=Matrix	
Hydric Soil I	ndicators:						Hydric So	oils: ³		
Histosol or	r Histel (A1)				a Color Cha		-		Alaska Gleyed Without Hu	e 5Y or Redder
Histic Epip	edon (A2)				a Alpine sv	•	•		Underlying Layer	
	Sulfide (A4)			Alask	a Redox W	ith 2.5Y F	lue		Other (Explain in Remarks	5)
	Surface (A12)		3 One in	dicator of h	nydrophyt	ic vegetatio	n. one prin	mary indicator of wetland hy	ydrology.
Alaska Gle							e position r			(4.0.034)
✓ Alaska Red	. ,	-\		4 Give de	etails of col	lor change	e in Remark	S		
	eyed Pores (A1									
Restrictive Laye	,									
Type: silty	,								Hydric Soil Present?	Yes No
Depth (inch	nes): 1									
Remarks:										
HYDROLO	GY									
HYDROLO Wetland Hyd		itors:							_Secondary Indic	ators (two or more are required)
	rology Indica									ators (two or more are required) led Leaves (B9)
Wetland Hyd	rology Indica stors (any one			☐ Inu	ndation Vis	sible on A	erial Image	ry (B7)	Water Stain	
Wetland Hyd Primary Indica Surface W High Wate	rology Indica stors (any one Vater (A1) er Table (A2)						erial Image cave Surfac	, , ,	Water Stain Drainage Pa	ed Leaves (B9) atterns (B10) aizospheres along Living Roots (C3)
Wetland Hyd Primary Indica Surface W High Wate Saturation	rology Indica stors (any one Vater (A1) er Table (A2) n (A3)			Spa	arsely Vege rl Deposits	tated Con (B15)	cave Surfac	, , ,	Water Stain Drainage Pa Oxidized Rh Presence of	ed Leaves (B9) atterns (B10) aizospheres along Living Roots (C3) Reduced Iron (C4)
Wetland Hyd Primary Indica ☐ Surface W ☐ High Wate ✓ Saturation ☐ Water Ma	rology Indica stors (any one Vater (A1) er Table (A2) n (A3) rks (B1)			Spa	rsely Vege	tated Con (B15)	cave Surfac	, , ,	Water Stain Drainage Pa Oxidized Rh Presence of Salt Deposit	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) Reduced Iron (C4) ts (C5)
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