WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T179_06
	gator(s): WAD, RWM			Landform (hills	side, terrac	e, hummocks etc.): Toeslope
`	elief (concave, convex, none): concave			Slope:	% / 3.2	
	ion : Interior Alaska Mountains	1.		63.146986842		Long.: -148.325954079 Datum: NAD83
_		L	at	33.140900042	.3	
	p Unit Name:			- 1	<u> </u>	NWI classification: Upland
Are V Are V	natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology	signifi natura	cantly ally pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
	MARY OF FINDINGS - Attach site map sh		Sam	piing point	locations	, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No			le	the Sam	pled Area
	Hydric Soil Present? Yes O No				thin a W	
Rema	Wetland Hydrology Present? Yes O No	•		WI	tiiiii a vv	etiana:
	TATION -Use scientific names of plants.	List al	l spe	cies in the I	plot.	
			olute	Dominant		Dominance Test worksheet:
	e Stratum	<u> % C</u>	over	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.			0			Total Number of Dominant
2.		_	0			Species Across All Strata:5(B)
3.		_	0			Percent of dominant Species
4.		_	0			That Are OBL, FACW, or FAC: 60.0% (A/B)
5.	Total Co.		0			Prevalence Index worksheet:
	Total Cov		20%	of Total Covers	0	Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =
1.	Empetrum nigrum		40	~	FAC	FACW Species 13 x 2 = 26
2.	Cassiope tetragona		35	✓	FACU	FAC Species 65 x 3 = 195
3.	Salix polaris		5		FACW	FACU Species 43 x 4 = 172
4.	Luetkea pectinata	_	4		UPL	UPL Species <u>5</u> x 5 = <u>25</u>
5.	Vaccinium vitis-idaea		3		FAC	Column Totals: <u>126</u> (A) <u>418</u> (B)
6.		_	0			Prevalence Index = B/A = 3.317
7.		_	0			
9.		_	0			Hydrophytic Vegetation Indicators: Dominance Test is > 50%
10.		_	0			
10.	Total Cov	·	87			Prevalence Index is ≤3.0
Her	b Stratum 50% of Total Cover:			of Total Cover	: 17.4	 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex microchaeta		15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Artemisia norvegica	_	5	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex bigelowii		5	✓	FAC	be present, unless disturbed or problematic.
4.	Petasites frigidus		4		FACW	Disk size (and in a substantial but a substantia
5.	Sibbaldia procumbens		3		FACU	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6.	Festuca altaica		2		FAC	(Where applicable)
7.	Petasites frigidus		2		FACW	% Bare Ground
8.	Arctagrostis latifolia		2		FACW	Total Cover of Bryophytes
9.	Antennaria monocephala		1		UPL	
10.	Gentianella propinqua		0.1		FACU	Hydrophytic
	Total Cov	_	300/			Vegetation Present? Yes ● No ○
	50% of Total Cover:	19.55	20%	of Total Cover:	7.82	F163CIIL: 163 - 110 -
Rem	arks: agrvin 1, callep 1, collected.					

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SOIL Sampling Point: SW13_T179_06

(inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100						Fibric Organics	
2-4 1	.0YR	4/3	90	2.5YR	3/6	10	С	PL	Silt Loam	
4-6			100						Sapric Organics	
6-17			100						Sand	
										-
						-		-		
									-	
Type: C=Concentr	ation. D=		. RM=Reduc	ced Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	
lydric Soil Indica	tors:			Indicate	ors for Pro	blematic	Hydric So	oils: ³		
Histosol or Histe	el (A1)			Alas	ka Color Ch	ange (TA4	4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon	(A2)			Alasł	ka Alpine sv	vales (TA5	5)		Underlying Layer	
Hydrogen Sulfid	e (A4)			Alasł	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remarl	(S)
Thick Dark Surfa	, ,	1		3 ∩ne ir	ndicator of	hydronhyt	ic vegetatio	n one nrin	mary indicator of wetland h	nydrology
☐ Alaska Gleyed (A				and an	appropriate	e landscap	e position r	nust be pre	esent	iyai ology,
☐ Alaska Redox (A	,	-\		4 Give d	letails of co	lor change	e in Remark	is .		
☐ Alaska Gleyed P	`)								
estrictive Layer (if p	resent):									• v O v O
									Hydric Soil Present	? Yes O No 💿
Type: Depth (inches):										
* *	ors obser	ved								
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Depth (inches): emarks: hydric soil indicate										
Depth (inches): emarks: hydric soil indicate YDROLOGY retland Hydrology	y Indica	tors:								cators (two or more are required)
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