WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 10-Jul-13
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T135_01
	gator(s): JER		Landform (hill	side, terrac	ce, hummocks etc.): Undulating
Local	relief (concave, convex, none): convex		Slope:	% / 2.8	
Subre	gion : Southcentral Alaska	Lat.:	62.887905120	 18	Long.: -148.881607414 Datum: NAD83
	ap Unit Name:		02.007000120		NWI classification: Upland
	matic/hydrologic conditions on the site typical for this ti	mo of voc	ar? Ves	● No ○	(If no, explain in Remarks.)
		•	tly disturbed?		Iormal Circumstances" present? Yes No No
		•	problematic?		eded, explain any answers in Remarks.)
	•				
SUM	MARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No			tha Cama	unland Ausa
	Hydric Soil Present? Yes No				ıpled Area /etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes O No)	WI	thin a W	etiand? Tes UNO U
Rem	arks: morrainal landscape of small knobs, depressions,	and drain	nage ways.		
VEGI	ETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.	
		Absolute		Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (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: 100.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cover		_		Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =
1.	Betula nana	5		FAC	FACW Species 17.1 x 2 = 34.20
2.	Vaccinium uliginosum	40	_	FAC	FAC Species 81 x 3 = 243
3.	Vaccinium vitis-idaea	15	_	FAC	FACU Species 29 x 4 = 116
4.	Empetrum nigrum		_	FAC	UPL Species <u>3</u> x 5 = <u>15</u>
5.	Loiseleuria procumbens	15		FACU	Column Totals: <u>130.1</u> (A) <u>408.2</u> (B)
6.	Salix pulchra	2		FACW	Prevalence Index = B/A = 3.138
_	Rhododendron tomentosum Arctous alpinus	15 8		FACU FACU	II. dan da di Van datina Tadinahana
8. 9.	Salix arctica		-	FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
	Diapensia lapponica	3	-	UPL	Prevalence Index is ≤3.0
	Total Cover	128	_		Morphological Adaptations (Provide supporting data in
Hei	b Stratum 50% of Total Cover:			25.6	Remarks or on a separate sheet)
1.	Anthoxanthum monticola ssp. alpinum	_ 1		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex bigelowii	1		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Pedicularis labradorica	0.1		FACW	be present, unless disturbed or problematic.
4.	-		_		Plot size (radius, or length x width)
5.			_		% Cover of Wetland Bryophytes
_		0	_		(Where applicable)
					İ
7.		0	-		% Bare Ground
7. 8.		0	_		% Bare Ground2 Total Cover of Bryophytes10
7. 8. 9.		0 0			Total Cover of Bryophytes 10
7. 8. 9.		0 0	_		Total Cover of Bryophytes 10 Hydrophytic
7. 8. 9.		0 0 0 0 0 2.1	_	0.42	Total Cover of Bryophytes 10

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SOIL Sampling Point: SW13_T135_01

(inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	Color (III	OISL)	100	Color (Illoist)		туре	LUC	Fibric Organics	
1-4	7.5YR	3/4	100					Sand	gravelly, rounded, subrnd
4-8	7.5YR	3/3	100					Loamy Sand	gravelly
8-9	5YR	2.5/2	100					Sand	v. gravelly
9-16	10YR	3/4	100					Sand	v. gravelly
3 10	1011								v. graveny
	-								
	-								
Type: C=Cor	ncentration. D	=Depletior	RM=Reduce	d Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
lydric Soil Iı	ndicators:			Indicators for P	roblematic	Hvdric So	oils:		
_	Histel (A1)			Alaska Color C		4		Alaska Gleyed Witho	ut Hue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine	swales (TA5)			Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y Hu	ie		Other (Explain in Re	marks)
Thick Dark	Surface (A1	2)		3 One indicator of	f hydrophytic	vogotatio	a ana nrin	nary indicator of wetla	nd hydrology
Alaska Gle				and an appropria					nu nyurology,
☐ Alaska Rec	. ,	(F)		4 Give details of o	color change	in Remarks	S		
	yed Pores (A	•							
estrictive Laye	er (if present)	:							
Type:								Hydric Soil Pres	ent? Yes ○ No •
Depth (inch	nes):								
Depth (inchemarks: b hydric soil in		ısal due to	rock at 16in						
emarks:		ısal due to	rock at 16in						
emarks: b hydric soil in	ndicators, refu	usal due to	rock at 16in						
emarks: b hydric soil in YDROLO Vetland Hydi	GY rology Indic	ators:						Secondary	Indicators (two or more are required)
emarks: b hydric soil in YDROLO Vetland Hydric Trimary Indica	GY rology Indic	ators:						Water	Stained Leaves (B9)
YDROLO Yetland Hydric Yorimary Indica Surface W	GY rology Indictors (any one /ater (A1)	ators:		Inundation \				Water Draina	Stained Leaves (B9) ge Patterns (B10)
YDROLO //etland Hydo /rimary Indica Surface W High Wate	GY rology Indictors (any one /ater (A1) er Table (A2)	ators:		Sparsely Veg	getated Conc			Water Draina Oxidiz	Stained Leaves (B9) ige Patterns (B10) ed Rhizospheres along Living Roots (C
YDROLO YDROLO Yetland Hydri Trimary Indica Surface W High Wate Saturation	GY rology Indicators (any one (ater (A1)) er Table (A2)	ators:		Sparsely Veg	getated Conc ts (B15)	ave Surfac		Water Draina Oxidiz Preser	Stained Leaves (B9) ige Patterns (B10) ed Rhizospheres along Living Roots (C ice of Reduced Iron (C4)
YDROLO YDROLO Yetland Hydi rimary Indica Surface W High Wate Saturation Water Mai	GY rology Indictors (any one later (A1) er Table (A2) of (A3) rks (B1)	ators: : is sufficier		Sparsely Veg Marl Deposit Hydrogen Su	getated Conc ts (B15) ulfide Odor (0	ave Surfac C1)		Water Draina Oxidiz Preser	Stained Leaves (B9) Ige Patterns (B10) Ed Rhizospheres along Living Roots (Conce of Reduced Iron (C4) Eposits (C5)
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