WETLAND DETERMINATION DATA FORM - Alaska Region

i iojec	t/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 08-Jul-13
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T101_04
Invest	igator(s): WAD, BAB	L	andform (hill	side, terrac	ce, hummocks etc.): Bench
Local	relief (concave, convex, none): hummocky		Slope: 1.7	% / 1.0) ° Elevation: 843
Subre	gion : Copper River Basin	Lat · 6	2.669466496		Long.: -147.474216819 Datum: WGS84
	ap Unit Name:		2.000+00+00	<u></u>	NWI classification: PSS1B
		60	Voo	No ○	
	matic/hydrologic conditions on the site typical for this ti /egetation \square , Soil \square , or Hydrology \square :	me of year? significantly			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
		naturally pro			eded, explain any answers in Remarks.)
	• •				
SUM	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C)	_		
	Hydric Soil Present? Yes No C)			pled Area
	Wetland Hydrology Present? Yes No C)	wi	thin a W	etland? Yes ● No ○
Ren	narks: photo num 1121,1122				
IXCII	photo time 1147				
	·				
VEG	ETATION - Use scientific names of plants. Li	st all spec	cies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Cover	Species?	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:
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species <u>0.2</u> x 1 = <u>0.2</u>
1.	Betula nana	75	✓	FAC	FACW Species 33 x 2 = 66
2.	Ledum decumbens	25	✓	FACW	FAC Species 103 x 3 = 309
3.	Vaccinium uliginosum	15		FAC	FACU Species 0 x 4 = 0
4.	Salix pulchra	5		FACW	UPL Species
5.	Empetrum nigrum	5		FAC	Column Totals: <u>136.2</u> (A) <u>375.2</u> (B)
6.					Prevalence Index = B/A = 2.755
7.		0			Trevalence mack - B/A
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.					Prevalence Index is ≤3.0
ша	Total Cover rb Stratum_ 50% of Total Cover:		of Total Cover	: 25	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
_ne		8	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
1	Fauisetum sylvaticum			170	, , , , , , , , ,
	Equisetum sylvaticum Ruhus chamaemorus			FACW	1 Indicators of hydric soil and watland hydrology must
2.	Rubus chamaemorus	3		FACW OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. 3.	Rubus chamaemorus Eriophorum angustifolium Carox agustilis	0.1		OBL OBL	be present, unless disturbed or problematic.
2.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis	0.1		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
2. 3. 4. 5.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis Equisetum arvense	3 0.1 0.1 0.1		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m
2. 3. 4. 5. 6.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis Equisetum arvense	3 0.1 0.1 0.1		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
2. 3. 4. 5. 6. 7.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis Equisetum arvense	3 0.1 0.1 0.1 0 0		OBL	Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)
2. 3. 4. 5. 6. 7.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis Equisetum arvense	3 0.1 0.1 0.1 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
2. 3. 4. 5. 6. 7. 8.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis Equisetum arvense	3 0.1 0.1 0.1 0 0		OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)
2. 3. 4. 5. 6. 7. 8.	Rubus chamaemorus Eriophorum angustifolium Carex aquatilis Equisetum arvense	3 0.1 0.1 0.1 0 0 0 0 0 0 11.3		OBL OBL FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m (Where applicable) 10m (Wh

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SOIL Sampling Point: SW13_T101_04

Profile Description Depth		latrix			dox Featu	res			
(inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4								Fibric Organics	
4-6								Hemic Organics	
								-	_
									-
									-
			— –						_
								-	
								-	
									_
Type: C=Con	centration. D=[Depletion. I	RM=Reduce	ed Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for P	roblematio	Hydric S	oils: ³		
Histosol or	Histel (A1)			Alaska Color C	Change (TA4	1)4		Alaska Gleyed Without I	Hue 5Y or Redder
✓ Histic Epipe	edon (A2)			Alaska Alpine	swales (TA5	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Rema	rks)
Thick Dark	Surface (A12)			3 One indicator o	f hydronhyd	ic vogotatio	n one prin	nary indicator of wetland	hydrology
Alaska Gley				and an appropria					nydrology,
Alaska Red	, ,			4 Give details of o	color change	e in Remark	·s		
Alaska Gley	yed Pores (A15)	1		GIVE details of C	color change	e iii Keman			
estrictive Laye	er (if present):								
Type: activ	e layer (frozen)	j						Hydric Soil Presen	t? Yes • No 🔾
Depth (inch emarks:			nds to 8 inc	:h					
Depth (inch emarks:	es): 6		ends to 8 inc	:h					
Depth (inch emarks:	es): 6		ends to 8 inc	:h					
Depth (inch emarks: e rich permafr YDROLOG Vetland Hydr	es): 6 rost, assume org	ganics exte		:h					dicators (two or more are required)
Depth (inch emarks: e rich permafr YDROLOG Vetland Hydr Primary Indicat	GY rology Indicate tors (any one is	ganics exte						Water Sta	ained Leaves (B9)
Depth (inch emarks: e rich permafr YDROLOG Vetland Hydr Primary Indicat Surface W	GY rology Indicate tors (any one is later (A1)	ganics exte		Inundation \		_		Water Sta	ained Leaves (B9) Patterns (B10)
Depth (inch emarks: e rich permafr YDROLOG /etland Hydr Primary Indicat Surface W High Wate	GY rology Indicate tors (any one is later (A1) er Table (A2)	ganics exte		☐ Inundation \	getated Con	_		Water Sta	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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Depth (inch emarks: e rich permafr YDROLOG Vetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment	GY rology Indicate tors (any one is rater (A1) er Table (A2) i (A3) rks (B1) Deposits (B2)	ganics exte		Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Con ts (B15) ulfide Odor Water Table	cave Surfac		Water State Drainage Oxidized Presence Salt Depo	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) osits (C5) or Stressed Plants (D1)
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