## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-12			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T38_01			
Investi	gator(s): SLI, KMK		Landform (hillside, terrace, hummocks etc.): Bench					
Local	relief (concave, convex, none): flat		Slope: 0.0	% / 2.0	° Elevation: 549			
Subred	gion : Southcentral Alaska	Lat.:	62.839373244	 18	Long.: -149.526758302 Datum: WGS84			
	ap Unit Name:	_			NWI classification: PSS3/4B			
	matic/hydrologic conditions on the site typical for this	time of year	2 Yes	● No ○	(If no, explain in Remarks.)			
	regetation $\square$ , Soil $\square$ , or Hydrology $\square$	-	y disturbed?		Iormal Circumstances" present? Yes  No			
	/egetation □ , Soil □ , or Hydrology □		roblematic?		eded, explain any answers in Remarks.)			
SUMI	MARY OF FINDINGS - Attach site map sh	owing sam	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No	$\circ$		tha Cam	mlad Avan			
	Hydric Soil Present? Yes ● No	$\circ$			pled Area /etland? Yes ◉ No ◯			
	Wetland Hydrology Present? Yes ● No	$\bigcirc$	WI	thin a W	etland? res @ No C			
Rem	Narks: zone of nicula invasion along pond margin, di	ifficult to find	Lannronriate v	iereck code	e. shallow water zone (outside plot) with caragu, compal,			
					en ground, but beaver dam has created flooded wetland.			
VEGE	<b>ETATION</b> - Use scientific names of plants.	List all spe	ecies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cover	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: 4 (B)			
3.		0			Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 75.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cov		(		Total % Cover of: Multiply by:			
Sap	lling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 19 x 1 = 19			
1.	Picea glauca		✓	FACU	FACW Species <u>6</u> x 2 = <u>12</u>			
2.	Ledum decumbens			FACW	FAC Species 22 x 3 = 66			
3.	Vaccinium uliginosum	2		FAC	FACU Species x 4 =28			
4.	Betula nana	5		FAC	UPL Species 0 x 5 = 0			
5.	Andromeda polifolia			FACW	Column Totals: <u>54</u> (A) <u>125</u> (B)			
6.	Empetrum nigrum	15		FAC	Prevalence Index = B/A = 2.315			
7.								
8.					Hydrophytic Vegetation Indicators:			
9.		$- \frac{0}{0}$			✓ Dominance Test is > 50% ✓ Prevalence Index is < 3.0			
10.	Total Cov							
Her	b Stratum 50% of Total Cover:		6 of Total Cover	: 6.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
	Carex pauciflora	10	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Rubus chamaemorus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Equisetum pratense	1		FACW	be present, unless disturbed or problematic.			
4.	Carex aquatilis	5	✓	OBL	Plot size (radius, or length x width) 10m			
5.	Vaccinium oxycoccos			OBL	Plot size (radius, or length x width) % Cover of Wetland Bryophytes			
6.	Eriophorum angustifolium	2		OBL	(Where applicable)			
					% Bare Ground			
8.					Total Cover of Bryophytes			
10.					Hydrophytic			
1	Total Cov				Vegetation Present? Yes ● No ○			
	50% of Total Cover:	11 200/	of Total Coucer	4.4	Present? Tes © NO C			

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SOIL Sampling Point: SW12\_T38\_01

		I to document the indic	cator or confirm the ab		ators)		
Depth —	atrix		Redox Featu		2		Parriardo.
(inches) Color (mois	st) %	Color (mo	ist) %	Type <sup>1</sup>	_Loc_2	Texture	Remarks
0-4						Fibric Organics	
4-10			-		-	Hemic Organics	
10-20						Sapric Organics	
17 C. Communication D.	Danistian DM	Dadward Makin 2	2		Doob Cho	and M. Mahiir	
<sup>1</sup> Type: C=Concentration. D=	Depletion, KM					innei. M=Matrix	
Hydric Soil Indicators:			rs for Problemati	4	oils:	1	
Histosol or Histel (A1)			Color Change (TA	•		Alaska Gleyed Without Hu Underlying Layer	ue 5Y or Redder
Histic Epipedon (A2)			Alpine swales (TA	•		, , ,	c)
Hydrogen Sulfide (A4)		∟ Alaska	Redox With 2.5Y I	lue		Other (Explain in Remark	5)
Thick Dark Surface (A12)		3 One ind	licator of hydrophy	ic vegetatio	n one nrin	nary indicator of wetland h	vdrology
Alaska Gleyed (A13)			ppropriate landscap				yurology,
Alaska Redox (A14)		4 Give de	tails of color chang	e in Remark	c		
Alaska Gleyed Pores (A15)	)	GIVE de	cuits of color charig	e iii Kemark	J		
Restrictive Layer (if present):							
Type:						Hydric Soil Present	? Yes ● No ○
Depth (inches):							
HYDROLOGY							
HYDROLOGY Wetland Hydrology Indicat	ors:					Secondary Indic	cators (two or more are required)
							cators (two or more are required)
Wetland Hydrology Indicat		☐ Inur	ndation Visible on A	erial Imager	ry (B7)	Water Stair	
Wetland Hydrology Indicate Primary Indicators (any one is			ndation Visible on A	_		Water Stair Drainage P	ned Leaves (B9)
Primary Indicators (any one is Surface Water (A1)		Spar	ndation Visible on A rsely Vegetated Cor I Deposits (B15)	_		Water Stair Drainage P Oxidized R	ned Leaves (B9) atterns (B10)
Primary Indicators (any one is  Surface Water (A1)  High Water Table (A2)		Spar	rsely Vegetated Cor I Deposits (B15)	ncave Surfac		Water Stair Drainage P Oxidized R	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3)		Spar	rsely Vegetated Cor	ncave Surfac		Water Stair Drainage P Oxidized RI Presence o Salt Deposi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
Primary Indicators (any one is  ☐ Surface Water (A1)  ☑ High Water Table (A2)  ☑ Saturation (A3)  ☐ Water Marks (B1)		Spar	rsely Vegetated Cor I Deposits (B15) rogen Sulfide Odor	ncave Surfac (C1) e (C2)		Water Stair Drainage P Oxidized RI Presence o Salt Deposi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1)
Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Spar	rsely Vegetated Coi I Deposits (B15) rogen Sulfide Odor -Season Water Tabl	ncave Surfac (C1) e (C2)		Water Stair Drainage P Oxidized RI Presence o Salt Deposi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2)
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