## WETLAND DETERMINATION DATA FORM - Alaska Region

Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 28-Aug-15								
nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T332_05								
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Hillside												
elief (concave, convex, none): hummocky		Slope: 7.0	% / 4.0	° Elevation:								
on : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84								
				NWI classification: Upland								
	me of ves	ar? Yes	No ○	(If no, explain in Remarks.)								
Are Vegetation . , Soil . , or Hydrology . naturally problematic? (If needed, explain any answers in Remarks.)												
• •	• •											
<u> </u>		mpling point	locations	s, transects, important features, etc.								
, , ,				J. J. A								
.,,												
Wetland Hydrology Present? Yes ○ No ●	)	Wi	thin a Wetland?									
rks:												
<b>TATION</b> -Use scientific names of plants. Li	st all sp	ecies in the p	plot.									
	Absolute	e Dominant	Indicator	Dominance Test worksheet:								
Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)								
				Total Number of Dominant								
		. 📙		Species Across All Strata: (B)								
		. 📙		Percent of dominant Species								
		. 📙		That Are OBL, FACW, or FAC: (A/B)								
Total Cover				Prevalence Index worksheet:								
		_	0	Total % Cover of: Multiply by:								
			-	OBL Species 0 x 1 = 0								
•		_		FACW Species 15.1 x 2 = 30.20 FAC Species 103 x 3 = 309								
		- <b>V</b>		FAC Species 103 x 3 = 309 FACU Species 0.1 x 4 = 0.400								
District description of		. L		UPL Species $0 \times 5 = 0$								
Vaccinium vitio idoca		·										
Manadali wa uliala aniwa				Column Totals: <u>118.2</u> (A) <u>339.6</u> (B)								
vaccinium unginosum				Prevalence Index = B/A =								
	0			Hydrophytic Vegetation Indicators:								
	0			✓ Dominance Test is > 50%								
	0			✓ Prevalence Index is ≤3.0								
				Morphological Adaptations (Provide supporting data in								
Stratum 50% of Total Cover:	<u>57.5</u> 20	)% of Total Cover:	: 23	Remarks or on a separate sheet)								
Carex bigelowii	3	_ 🖳	FAC	Problematic Hydrophytic Vegetation (Explain)								
•	0.1	- 📙	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
		- 📙	FACU	be present, unless disturbed or problematic.								
		-		Plot size (radius, or length x width)								
		-		% Cover of Wetland Bryophytes								
		-		(Where applicable)								
		- 📙		% Bare Ground								
		-		Total Cover of Bryophytes 60								
	0	-										
	U			Hydrophytic								
Total Cover:	3 2	_										
<b>Total Cover:</b> 50% of Total Cover:			0.64	Vegetation Present?  Yes  No								
	nt/Owner: Alaska Energy Authority pator(s): SLI, SCB elief (concave, convex, none): hummocky ion: Interior Alaska Mountains p Unit Name: natic/hydrologic conditions on the site typical for this tile gegtation	Int/Owner: Alaska Energy Authority  Jator(s): SLI, SCB  Jatief (concave, convex, none): hummocky  Jator Alaska Mountains  Junit Name:  Junit Name:  Jatic/hydrologic conditions on the site typical for this time of year  Jatic/hydrologic conditions on the site typical for this time of year  Jatic/hydrologic conditions on the site typical for this time of year  Jacqueta Segetation Soli On Hydrology Institute of year  Jacqueta Soli On Hydrology  Jacqueta Soli On Hydrology  Jacqueta Soli On Hydrology  Jacqueta Soli On Hydrology	nt/Owner: Alaska Energy Authority pator(s): SLI_SCB	nt/Owner: Alaska Energy Authority pator(s): SLI, SCB								

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SOIL Sampling Point: SW15\_T332\_05

		the depth r	needed to docu	iment the indicator or c	onfirm the abs		cators)				
Depth — (inches)	Color (me	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	•							Hemic Organics			
2-3	10YR	3/4	100					Loam			
3-4	7.5YR	3/3	100					Sandy Loam			
4-9	10YR	4/3	100					Loam			
		· ·						Loam			
9-10	7.5YR	4/4									
	10YR	4/3						Loam			
	10YR	4/6					-	Silt Loam			
14-14.5	2.5Y	6/2	100					Loam	eluviated layer		
¹Type: C=Conce	entration. D	=Depletior	n. RM=Redu	ced Matrix <sup>2</sup> Location	on: PL=Pore	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil Ind	licators:			Indicators for P	roblematio	Hydric S	oils: <sup>3</sup>				
Histosol or H	listel (A1)			Alaska Color (	Change (TA4	ł) <sup>4</sup>		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epiped	don (A2)			Alaska Alpine	•	•		Underlying Layer			
Hydrogen Su	ulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	s)		
Thick Dark S	Surface (A12	2)		3 One indicator of	f bydrophyt	ic voqotatic	on one prin	mary indicator of wetland h	vdralogy		
Alaska Gleye				and an appropri					ydrology,		
Alaska Redox	` '	<b>F</b> \		4 Give details of	color change	e in Remarl	ks				
Alaska Gleye											
Restrictive Layer ( Type:	(ir present):							Hydric Soil Present	? Yes ○ No •		
Depth (inches	s):							nyuric Son Present	r tes 🔾 No 😌		
Horizon 9, 14.5-1 Horizon 10, 17-19 no hydric soil indi	9inches: 2.5										
HYDROLOG	iΥ										
Wetland Hydrol	logy Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indicator	rs (any one	is sufficier	nt)					Water Stair	ned Leaves (B9)		
Surface Wat	ter (A1)			Inundation	Visible on A	erial Image	ery (B7)	) Drainage Patterns (B10)			
High Water	igh Water Table (A2) Sparsely Vegetated Concave Surface (B8)						ce (B8)				
Saturation (				Marl Deposi	ts (B15)				f Reduced Iron (C4)		
Water Marks				Hydrogen Sulfide Odor (C1) Salt Deposits (C5)							
									Stressed Plants (D1)		
Drift Deposit	. ,			U Other (Expl	ain in Rema	rks)			c Position (D2)		
Algal Mat or									uitard (D3)		
Iron Deposit	. ,								raphic Relief (D4)		
Surface Soil	Cracks (B6)	)						☐ FAC-neutra	l Test (D5)		
Field Observation		(	) (a)								
Surface Water P	resent?	Yes		Depth (inch	es):						
Water Table Pre	esent?	Yes	○ No •	Depth (inch	es):		Wetla	nd Hydrology Presen	t? Yes O No 🖲		
Saturation Prese (includes capilla		Yes	No ●	Depth (inch	es):						
Describe Recorde	ed Data (stre	eam gauge	e, monitor w	ell, aerial photos, pro	evious inspe	ction) if av	ailable:				
Damedia											
Remarks:	iento:										
no hydrology indi	icators										

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