WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric	c Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13		
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T107_04					
Investi	gator(s): SLI, SCB	e, hummocks etc.): Lowland						
Local re	elief (concave, convex, none): hum	mocky		Slope:	% / 1.9	9 ° Elevation: 756		
Subreq	ion : Interior Alaska Mountains	·	Lat.:	62.86205971	 2	Long.: -148.111151576 Datum: NAD83		
_	p Unit Name:			02.002000.		NWI classification: PSS1B		
	natic/hydrologic conditions on the site	typical for this t	ime of ves	ır? Yes	No ○	(If no, explain in Remarks.)		
		_	•	tly disturbed?		lormal Circumstances" present? Yes No		
			-	problematic?		eded, explain any answers in Remarks.)		
		0,						
SUMN		<u>-</u>		mpling poin	locations	s, transects, important features, etc.		
	,	res ● No ☐		lo	the Sam	pled Area		
	,	res ● No ○			ithin a W			
		∕es)	W	itiiiii a vv	etiality: 165 9 NO 9		
Rema	arks: fnwbs wetland							
VEGE	TATION -Use scientific names	of plants. L	ist all sp	ecies in the	plot.			
			Absolute			Dominance Test worksheet:		
	Stratum		% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)		
	Picea mariana			_	FACW	Total Number of Dominant		
2.				-		Species Across All Strata: 7 (B)		
3. 4.			$ \frac{0}{0}$	- 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B		
5.			- 0	-		That Are OBL, I AGW, OF FAC. 100.0% (AB		
J.		Total Cover		- "		Prevalence Index worksheet:		
San	ling/Shrub Stratum 50% of ⁻	Total Cover:		- % of Total Cover	·: 2	Total % Cover of: Multiply by:		
						OBL Species 0.1 x 1 = 0.1 FACW Species 50 x 2 = 100		
	Vaccinium uliginosum		30		FAC			
2.	Rhododendron tomentosum			- V	FACW	FAC Species <u>80</u> x 3 = <u>240</u> FACU Species 0 x 4 = 0		
3. 4.					FAC FAC	UPL Species 0 x 5 = 0		
5.	Dioca mariana		10		FACW			
6.	Connets un nierum		10	- —	FAC	Column Totals: <u>130.1</u> (A) <u>340.1</u> (I		
	Vaccinium oxycoccos		0.1		OBL	Prevalence Index = B/A = 2.614		
8.	Tuosiiiaiii oxyssesses					Hydrophytic Vegetation Indicators:		
						✓ Dominance Test is > 50%		
10.			0			✓ Prevalence Index is ≤3.0		
		Total Cover				Morphological Adaptations (Provide supporting data in		
Her	b Stratum 50% of	Total Cover:	50.05 20	% of Total Cove	r: <u>20.02</u>	Remarks or on a separate sheet)		
1.	Carex bigelowii		10	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Rubus chamaemorus			_	FACW	¹ Indicators of hydric soil and wetland hydrology must		
				- 片		be present, unless disturbed or problematic.		
				-		Plot size (radius, or length x width)		
				- 📙		% Cover of Wetland Bryophytes		
				- 📙		(Where applicable)		
				- 🗒		% Bare Ground 1		
				-		Total Cover of Bryophytes		
			- 0	-		Hydronhytic		
10.		Total Cover				Hydrophytic Vegetation		
			-	_				
	50% of ⁻	Total Cover:	10 209	% of Total Cover	: 4	Present? Yes ♥ No ○		

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SOIL Sampling Point: SW13_T107_04

	ion: (Describe to t	the depth nee	eded to docume	ent the inc		firm the abs		ators)				
Depth (inches)	Color (moi	ist)	%	Color (m	ioist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3									Hemic Organic			
3-8									Fibric Organic			
8-12	10Y	4/1	— 65	10YR	4/6	35		PL	Clay Loam			
	10.	-1/ -		101								
Type: C=Cor		Depletion.	RM=Reduce	d Matrix	² Location:	: PL=Pore	 e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	hlematic	· Hvdric Sc	nils:				
	r Histel (A1)				ka Color Cha		4	, <u>5.</u>	Alaska Gleyed Without Hi	ue 5V or Redder		
✓ Histosol of	. ,			Alaska Alpine swales (TA5)					Underlying Layer	Je 31 Gr Redder		
	Sulfide (A4)			Alaska Redox With 2.5Y Hue					Other (Explain in Remarks)			
_ ′ ′	Surface (A12)			_								
Alaska Gle									mary indicator of wetland h	ydrology,		
✓ Alaska Red				and an	appropriate	: lanascap	e position ii	nust be pro	esent			
	eyed Pores (A15	·)		4 Give d	details of co	or change	e in Remark	s				
Restrictive Laye	er (if present):											
Type: _{clay} Depth (inch									Hydric Soil Present	? Yes ● No O		
Remarks:	ies). 0											
HYDROLO	GY											
Wetland Hydi		tors:							Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	s sufficient	1						Water Stained Leaves (B9)			
Surface W	/ater (A1)			Inundation Visible on Aerial Imagery (B7)					Drainage P	Patterns (B10)		
High Wate		Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)				
	Saturation (A3)					(B15)			_	f Reduced Iron (C4)		
Water Ma				∐ Ну	drogen Sulf	ide Odor	(C1)		☐ Salt Depos			
	Deposits (B2)			_	y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Ot	her (Explain	ı in Remar	rks)			ic Position (D2)		
l — -	or Crust (B4)								✓ Shallow Aq	' '		
☐ Iron Depo	` ,									graphic Relief (D4)		
	oil Cracks (B6)							1	✓ FAC-neutra	l Test (D5)		
Field Observa		V (a)	Nia O									
Surface Water			No O	De	epth (inches): 6						
Water Table P	resent?	Yes 🕑	No O	De	epth (inches): 4		Wetla	nd Hydrology Presen	t? Yes • No 🔾		
Saturation Pre (includes capi		Yes	No O	De	epth (inches): 2						
Describe Recor	ded Data (strea	ım gauge,	monitor well,	, aerial pl	hotos, previ	ous inspe	ction) if ava	ilable:				
Remarks:												
small, scattered	d nools of surfa	ce water.										
Sitiully Scatter St	a poois or sur	ce water.										

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