WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12						
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_11						
nvestigator(s): SLI, EKJ Landform (hillside, terrace, hummocks etc.): Knob											
	relief (concave, convex, none): concave		Slope:	% / 0.8							
Subred	gion : Southcentral Alaska	Lat.:	62.792418192	 23	Long.: -148.815455736 Datum: NAD83						
	ap Unit Name:	200.	02.702410102		NWI classification: Upland						
	matic/hydrologic conditions on the site typical for this ti	imo of voc	or? Yes	● No ○	(If no, explain in Remarks.)						
Are \	regetation ☐ , Soil ☐ , or Hydrology ☐	significan	tly disturbed?	Are "N	lormal Circumstances" present? Yes No eded, explain any answers in Remarks.)						
SUMI	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes No)	lo.	the Com	mlad Araa						
	Hydric Soil Present? Yes No	Is the Sam within a W			-						
	Wetland Hydrology Present? Yes No		WI	tnin a vv	etiand? Tes © NO ©						
Rema	arks: kame with multiple barren patches in this commu	unity.									
VEGE	TATION -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: 3 (A)						
1.		0			That are OBL, FACW, or FAC:3(A) Total Number of Dominant						
2.		0			Species Across All Strata:3(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	lling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =0						
1.	Betula nana	15	✓	FAC	FACW Species 17 x 2 = 34						
2.	Betula glandulosa	5	_ 📙	FAC	FAC Species <u>53</u> x 3 = <u>159</u>						
3.	Rhododendron tomentosum	15	_	FACW	FACU Species 2 x 4 = 8						
4.	Vaccinium vitis-idaea		_	FAC	UPL Species						
5.	Vaccinium uliginosum	3		FAC	Column Totals: <u>72</u> (A) <u>201</u> (B)						
6.	Empetrum nigrum			FAC	Prevalence Index = B/A =2.792_						
	Arctous ruber	. 7	-	FACU FACU							
	Picea glauca Salix pulchra	1	-	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%						
10.	Salix pulctira		- H	TACW	✓ Prevalence Index is ≤3.0						
10.	Total Cover		_		Morphological Adaptations 1 (Provide supporting data in						
Her	b Stratum 50% of Total Cover:			: 13.8	Remarks or on a separate sheet)						
1.	Carex bigelowii	1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Anthoxanthum monticola ssp. alpinum	1		UPL	¹ Indicators of hydric soil and wetland hydrology must						
3.	Rubus chamaemorus	1		FACW	be present, unless disturbed or problematic.						
4.		0	_ 📙		Plot size (radius, or length x width)						
5.			- 📙		% Cover of Wetland Bryophytes						
			_		(Where applicable)						
			-		% Bare Ground3						
8.			-		Total Cover of Bryophytes						
		0	- 님								
9.		^									
9.		0	_		Hydrophytic						
9.		: 3	_	0.6	Hydrophytic Vegetation Present? Yes No						

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SOIL Sampling Point: SW12_T29_11

		the depth nee	eded to docume	ent the indicator or cor	nfirm the ab		ators)					
Depth (inches)	Color (moi	ist)	 %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2		<u></u>	95					Hemic Organics	5% roots			
2-6			95 —					Sapric Organics	5% roots and semiangular fg			
-	10VD				-							
6-13	10YR	4/6						Sandy Loam	40% semiangular gravels and cobbles			
-								-				
¹Type: C=Cor	ncentration. D=	Depletion.		d Matrix ² Location				annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³					
Histosol o	r Histel (A1)		I	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder								
Histic Epip	pedon (A2)		I	Alaska Alpine swales (TA5) Underlying Layer								
Hydrogen	Sulfide (A4)		I	Alaska Redox V	Vith 2.5Y H	lue	L	Other (Explain in Remark	(S)			
☐ Thick Dark	k Surface (A12)			30	1 Secular d			to the control of the control of the				
Alaska Gle				One indicator of and an appropriat	hydropnyt e landscar	ic vegetation r	n, one prin	mary indicator of wetland hesent	ydrology,			
Alaska Red	dox (A14)					•		Cocine				
	eyed Pores (A15	<u>)</u>		4 Give details of co	olor change	e in Remark	rs I					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	hes):											
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	ators (any one is	s sufficient)					Water Stained Leaves (B9)				
Surface Water (A1)				Inundation V	isible on A	erial Image	ry (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	; (B15)				of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su		. ,		Salt Depos				
Sediment Deposits (B2)				☐ Dry-Season V					Stressed Plants (D1)			
	☐ Drift Deposits (B3) ☐ Other (Explain in Remark								ic Position (D2)			
	or Crust (B4)								quitard (D3)			
☐ Iron Depo	, ,							_	graphic Relief (D4)			
	oil Cracks (B6)						1	✓ FAC-neutra	il Test (D5)			
Field Observa		Voc ()	No ●	Donth (incho	- 1 -							
Surface Water				Depth (inche	s):							
Water Table F			No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre (includes capi		Yes	No O	Depth (inche	s): 3							
Describe Recor	rded Data (strea	am gauge,	monitor well,	, aerial photos, prev	ious inspe	ection) if ava	ailable:					
Remarks:												
heavy rain yesterday afternoon and last night. saturation is from the surface, bottom of pit moist but not saturated. no water table, no wetland hydrology.												
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