WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Samp	bling Date: 20-Jun-12
Applicant/Owner: Alaska Energy Authority		Sampling Poi	nt:
Investigator(s): SLI, EKJ	Landform (hills	side, terrace, hummocks etc.): Terra	ace
Local relief (concave, convex, none): flat	Slope: 3.5	% / 2.0 ° Elevation: 455	
Subregion : Interior Alaska Mountains	Lat.: 62.823779908	3Long.:148.62385997	Datum: WGS84
Soil Map Unit Name:		NWI classificatio	on: Upland
	e of year? Yes (nificantly disturbed? turally problematic?	 No (If no, explain in Rema Are "Normal Circumstances" prese (If needed, explain any answers in 	ent? Yes $ullet$ No $igodot$
SUMMARY OF FINDINGS - Attach site map showing	ng sampling point	locations, transects, important	features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No (Yes No (Yes No (Is the Sampled Area	Yes 🔿 No 🖲

Remarks: picgla woodland, has burned at some point in the past: fire-scarred trees, charcoal in soil profile.

VEGETATION - Use scientific names of plants. List all species in the plot.

			Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca		7	\checkmark	FACU	That are OBL, FACW, or FAC: <u>2</u> (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:(A/B)
5.			0			Prevalence Index worksheet:
		Total Cover:	7			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	<u>3.5</u> 20%	of Total Cover:	1.4	OBL Species x 1 =
1.	Picea glauca		10	\checkmark	FACU	FACW Species 0 x 2 = 0
2.	Potula nono		30	\checkmark	FAC	FAC Species49 x 3 =147
3.	Vaccinium uliginosum		10	\checkmark	FAC	FACU Species <u>18</u> x 4 = <u>72</u>
4.	Vaccinium vitis-idaea		7		FAC	UPL Species x 5 =
5.	Equisetum sylvaticum		1		FAC	Column Totals: 67 (A) 219 (B)
6.	Equisetum arvense		0.1		FAC	
7.	Cornus suecica		1		FAC	Prevalence Index = B/A = <u>3.269</u>
8.	Geocaulon lividum		1		FACU	Hydrophytic Vegetation Indicators:
9.			0			Dominance Test is > 50%
10.			0			Prevalence Index is ≤ 3.0
		Total Cover:	0011			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:	30.05 20%	of Total Cover:	12.02	Remarks or on a separate sheet)
1.			0			Problematic Hydrophytic Vegetation ¹ (Explain)
2.			0			¹ Indicators of hydric soil and wetland hydrology must
						be present, unless disturbed or problematic.
4.			0			Plot size (radius, or length x width) 10m
5.						% Cover of Wetland Bryophytes
6.						(Where applicable)
7.						% Bare Ground _7
8.						Total Cover of Bryophytes90
9.						
10.			0			Hydrophytic
		Total Cover:				Vegetation Present? Yes O No •
		50% of Total Cover:	0 20%	of Total Cover:	0	Present? Yes V No •

Remarks: equisetum a mix of sylvaticum and arvense, total cover of 1%. Herbs (Equisetum, Cornus, and Geocaulon) recorded with shrubs as herb stratum has >5% total cover.

Depth (inches) Ca	olor (mois	t)	%	Color (m	oist)	%	Type ¹	Loc 2	т	exture		Remarks
0-2		-,	100				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Fibric Orga	anics		
2-4			100						Hemic Org	anics	-	
4-6 7.	.5YR	3/2	98	5YR	2.5/2	2	C	PL	Sandy Loa	m		
	0YR	3/4	95	7.5YR	3/4	5	C	 M	Sandy Loa		few charcoal inc	lusions
		5/1		7.5110	- 5/1							
Type: C=Concentra	ation. D=D	Depletion. F	RM=Reduc	ed Matrix	² Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=M	atrix		
lydric Soil Indicat	ors	-		Indicat	ors for Pro	blemati	c Hydric S	oils ³				
Histosol or Histel					ka Color Ch		4	с	Alaska Gl	eved Without H	ue 5Y or Redde	r
Histic Epipedon (. ,				ka Alpine sv				Underlyin			
Hydrogen Sulfide				Alas	ka Redox W	/ith 2.5Y H	lue		Other (Ex	plain in Remar	ks)	
Thick Dark Surfa	ice (A12)			2								
Alaska Gleyed (A	13)						ic vegetation be position (or of wetland h	nydrology,	
Alaska Redox (A:	14)							•				
Alaska Gleyed Po	ores (A15)			+ Give d	letalls of co	lor change	e in Remarl	(S				
estrictive Layer (if p	resent):											
Туре:									Hydric	Soil Present	? Yes \bigcirc	No 🖲
Depth (inches):												
emarks: hin band of light colo	ored fine s	and (possil	bly ash) ar	nd charcoa	l atop 6-16	layer, sta	ining some	soils below	v.			
	ored fine s	and (possil	bly ash) ai	nd charcoa	l atop 6-16	layer, sta	ining some	soils below	v.			
in band of light colo	pred fine s	and (possil	bly ash) ar	nd charcoa	l atop 6-16	layer, sta	ining some	soils below	v.			
in band of light colo YDROLOGY			bly ash) ai	nd charcoa	l atop 6-16	layer, sta	ining some	soils below		Secondary Indi	cators (two or n	nore are required)
in band of light colo YDROLOGY /etland Hydrology rimary Indicators (a	/ Indicate	ors:	bly ash) ar	nd charcoa	l atop 6-16	layer, sta	ining some	soils below		Water Stai	ined Leaves (B9	
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In band of light colo YDROLOGY Yetland Hydrology rimary Indicators (a Surface Water (/ High Water Tabl	/ Indicato any one is A1)	ors:	bly ash) ar	Int Sp	undation Vis	sible on A		ry (B7)		Water Stai	ned Leaves (B9 Patterns (B10) thizospheres alo) ng Living Roots (C3)
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