WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-12						
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T41_01						
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Undulating						
Local relief (concave, convex, none): convex	Slope: 8.7 % / 5.0 ° Elevation: 861						
Subregion : Interior Alaska Mountains Lat.:	62.8041082445 Long.: -148.018608312 Datum: WGS84						
Soil Map Unit Name:	NWI classification: Upland						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation							
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ○ Yes ○ Yes ○	No	Is the Sampled Area within a Wetland?	Yes \bigcirc No \odot
Remarks:				

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

		Absolute		Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Co		Species?	Status	Number of Dominant Species			
1.		-	0			That are OBL, FACW, or FAC: 0 (A)			
2.			0			Total Number of Dominant Species Across All Strata: 2 (B)			
3.			0						
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 0,0% (A/B)			
5.			0						
0.	Total Cover					Prevalence Index worksheet:			
6			-	f Total Covor	0	Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20/6 0	n Total Cover.	0	OBL Species x 1 =			
1.	Picea glauca	_	5		FACU	FACW Species $5 \times 2 = 10$			
2.	Betula glandulosa		10		FAC	FAC Species <u>35</u> x 3 = <u>105</u>			
3.	Vaccinium uliginosum		10		FAC	FACU Species <u>63</u> x 4 = <u>252</u>			
4.	Arctostaphylos alpina		15	\checkmark	FACU	UPL Species x 5 =			
5.	Empetrum nigrum		10		FAC	Column Totals: <u>103</u> (A) <u>367</u> (B)			
6.	Loiseleuria procumbens		40	\checkmark	FACU				
7.	Vaccinium vitis-idaea		5		FAC	Prevalence Index = B/A = <u>3.563</u>			
8.	Ledum decumbens		5		FACW	Hydrophytic Vegetation Indicators:			
9.	Anthoxanthum monticola ssp. alpinum		3		FACU	Dominance Test is > 50%			
	· · ·		0			□ Prevalence Index is ≤3.0			
	Total Cover	: 10)3			Morphological Adaptations ¹ (Provide supporting data in			
Her	b Stratum 50% of Total Cover:	51.5	20% (of Total Cover:	20.6	Remarks or on a separate sheet)			
1.			0			Problematic Hydrophytic Vegetation ¹ (Explain)			
			0			¹ Indicators of hydric soil and wetland hydrology must			
			0			be present, unless disturbed or problematic.			
			0						
			0			Plot size (radius, or length x width) <u>10m</u>			
			0			% Cover of Wetland Bryophytes (Where applicable)			
			0			% Bare Ground _20			
			0			Total Cover of Bryophytes 5			
			0						
			0			Hudwanhutia			
10.	 Total Cover)			Hydrophytic Vegetation			
	50% of Total Cover:			of Total Cover:	0	Present? Yes No •			

Remarks: trace pedicularis sp. shrub stratum includes 1% picgla tree and antmon, as total cover for tree and herb strata each <5%. scattered bryophytes include racomitrium moss.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features							cators)					
(inches) Color (moist) %		Color (moist) <u>%</u> Type ¹				Loc ²	Texture	Remarks				
0-1									Fibric Organics			
1-4									Hemic Organics			
4-7	7.5YR	3/3	100						Silt Loam			
										2004		
	10YR	4/4							Sandy Loam	20% subangular gravel		
							-		-			
¹ Type: C=Conce	entration. D=	Depletior	n. RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil Ind	licators:			Indicato	ors for Pro	oblematio	c Hydric S	oils: ³				
Histosol or H					a Color Ch		4] Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epiped	. ,			Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen Su										Explain in Remarks)		
	Surface (A12))										
Alaska Gleye	• •	, 							nary indicator of wetland h	ydrology,		
Alaska Redo				and an a	appropriat	e landscap	e position	must be pre	esent			
🗌 Alaska Gleye	ed Pores (A1	5)		⁴ Give de	etails of co	olor change	e in Remar	ks				
Restrictive Layer	(if present):											
Type:	(ii present):								Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inche	s):								frydric Son Fresenc			
	,											
Remarks: no hydric soil ind	icators											
no nyune son mu	ICALOIS											
HYDROLOG	ev.											
Wetland Hydro		tors.							Secondary Indi	cators (two or more are required)		
Primary Indicato			nt)							cators (two or more are required) ned Leaves (B9)		
Surface Wat		o ourreler			ndation Vi	sible on A	erial Image	erv (87)		Drainage Patterns (B10)		
High Water	. ,						ncave Surfa					
Saturation (l Deposits			(00)		of Reduced Iron (C4)		
Water Mark	. ,				Irogen Sul	. ,	(C1)		Salt Deposits (C5)			
Sediment D					-Season V				Stunted or Stressed Plants (D1)			
Drift Deposi				_ '	er (Explai		``'			ic Position (D2)		
Algal Mat or					(p		,			uitard (D3)		
	□ Iron Deposits (B5) □ Microtopographic Relief (D4)											
Surface Soil	I Cracks (B6)									l Test (D5)		
Field Observati	ions:											
Surface Water P	Present?	Yes	No 💿	Dep	oth (inche	s):						
Water Table Pre	esent?	Yes) No 🖲		oth (inche			Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲		
Saturation Prese												
(includes capilla	ry fringe)		No 🖲		oth (inche							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
	ology indicate	ors										
no wetland hydrology indicators												