WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 02-Aug-12									
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T54_05									
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Swale									
Local relief (concave, convex, none): convex	Slope: % / 4.1 ° Elevation: 721									
Subregion : Southcentral Alaska Lat.:	62.8342182556 Long.: -149.159864039 Datum: NAD83									
Soil Map Unit Name: NWI classification: Upland										
	ar? Yes No (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes No problematic? (If needed, explain any answers in Remarks.)									
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area									

within a Wetland?

Yes 🔾 No 🖲

Wetland Hydrology Present? Remarks:

Hydric Soil Present?

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

Yes 🔿 No 🖲

Yes 🔿 No 🖲

Ah			ute	Dominant	Indicator	Dominance Test worksheet:			
		% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.			0						
2.		-	0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)			
5.		_	0						
	Total Cover:		0			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20% c	of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1	Betula nana		30	\checkmark	FAC	FACW Species $22 \times 2 = 44$			
2.	Dhadadandron tomontooum	-	10		FACW	FAC Species 81 x 3 = 243			
3.	Empetrum nigrum		30	\checkmark	FAC	FACU Species 34 x 4 = 136			
4.	Picea glauca		2		FACU	UPL Species $1 \times 5 = 5$			
5.	Salix myrtillifolia		10		FACW	Column Totals: 138 (A) 428 (B)			
6.	Vaccinium vitis-idaea		10		FAC				
7.	Vaccinium uliginosum	_	5		FAC	Prevalence Index = B/A = <u>3.101</u>			
8.	Andromeda polifolia		2		FACW	Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
			0			Prevalence Index is ≤3.0			
	Total Cover:	9	9			Morphological Adaptations ¹ (Provide supporting data in			
Her	b Stratum 50% of Total Cover:	49.5	20% of Total Cover:		19.8	Remarks or on a separate sheet)			
1.	Lycopodium clavatum	_	1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Cornus canadensis	_	25	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Anemone narcissiflora	_	3		FACU	be present, unless disturbed or problematic.			
4.	Huperzia selago	_	1		UPL	Plot size (radius, or length x width) 10m			
5.	Anthoxanthum monticola ssp. alpinum	_	3		UPL	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes			
6.	Carex bigelowii		3		FAC	(Where applicable)			
7.	Festuca altaica	_	3		FAC	% Bare Ground			
8.		_	0			Total Cover of Bryophytes			
9.		_	0						
10.		_	0			Hydrophytic			
Total Cover: 39 Vegetation									
	50% of Total Cover: <u>1</u>	9.5	20% c	of Total Cover:	7.8	Present? Yes \bullet No \bigcirc			
Remarks: Juccel collected brome and carey as collected today, trace pedcap									

cted. brome and carex as collected today. trace pedcap

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)				
(inches) Color (moist)		st)	%	Color (moist)	<u>%</u> Type ¹		Loc ²	Texture	Remarks	
0-2		,	100			- 11		Fibric Organics		
2-4.5	7.5YR	3/3	100					Silt Loam		
4.5-5.5			100					Sapric Organics		
5.5-7		2/4	100					Sandy Loam		
	5YR	3/4								
7-16	7.5YR	3/2	90					Coarse Sandy Loam	10% subangular gravels	
¹ Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ced Matrix ² Location	: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³			
Histosol or	r Histel (A1)			Alaska Color Ch	ange (TA	4) 4		Alaska Gleyed Without Hi	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remark	s)	
Thick Dark	c Surface (A12)			30				and the last of the state	d also	
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland h esent	yarology,	
Alaska Rec	()			⁴ Give details of co	Jor chang	o in Domark				
Alaska Gle	eyed Pores (A15)					5			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (inch	nes):									
Remarks:										
no hydric soil ir	ndicators									
HYDROLO	GY									
Wetland Hyd		tors:						Secondary India	cators (two or more are required)	
	tors (any one is		t)					Water Stair	ned Leaves (B9)	
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	🗌 Drainage P	atterns (B10)	
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	· · /				f Reduced Iron (C4)	
Water Ma				Hydrogen Su				Salt Deposits (C5)		
	Deposits (B2)			Dry-Season V		. ,		Stunted or Stressed Plants (D1) Geomorphic Position (D2)		
Drift Depo				U Other (Explai	n in Rema	irks)			()	
	or Crust (B4)							Shallow Aq		
·	Iron Deposits (B5) Microtopographic Relief (D4) Surface Soil Cracks (B6) FAC-neutral Test (D5)									
Field Observa	. ,									
Surface Water		Yes C	No 💿	Depth (inche	s):					
Water Table P		-	No 🖲				Wetlar	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre				Depth (inche	,		euar			
(includes capi		Yes U) No 🖲	Depth (inche	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
no wetland hyd	lrology indicato	rs								