WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-13							
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T143_05							
Investigator(s): WAD, RWM	Landform (hillside, terrace, hummocks etc.): Toeslope							
Local relief (concave, convex, none): hummocky	Slope: <u>8.7 % / 5.0 °</u> Elevation: <u>1097</u>							
Subregion : Interior Alaska Mountains Lat.:	63.219453216 Long.: -148.215106845 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 , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \bigcirc No $ullet$
Remarks:				

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

		Abs	olute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum			Cover	Species?	Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: <u>5</u> (A)		
2.		-	0			Total Number of Dominant Species Across All Strata: 5 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
5.		-	0			Prevalence Index worksheet:		
	Total Cover		0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$		
1	Salix pulchra		35	\checkmark	FACW	FACW Species $63 \times 2 = 126$		
2.	Salix pulchra Salix reticulata	-	25		FAC	FAC Species 100 x 3 = 300		
3.	Potula glandulosa	-	25		FAC	FACU Species 5 x 4 = 20		
4.			15		FAC	UPL Species $0 \times 5 = 0$		
5.		-	10		FACW	Column Tatala: 169 (A) 446 (D)		
6	Vessisium ulisinssum		5		FAC	Column Totals: <u>168</u> (A) <u>446</u> (B)		
		-	0			Prevalence Index = B/A = 2.655		
			0					
			0			\checkmark Dominance Test is > 50%		
		-	0			✓ Prevalence Index is ≤3.0		
Total Cover:						\square Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum50% of Total Cover:				of Total Cover:	23	Remarks or on a separate sheet)		
1.	Festuca altaica	_	25	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Dodecatheon pulchellum	_	10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Swertia perennis	_	5		FACW	be present, unless disturbed or problematic.		
4.	Artemisia norvegica		5		FACU	Plot size (radius, or length x width) 10m		
5.	Sedum rosea	_	2		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Carex bigelowii		2		FAC	(Where applicable)		
7.	Petasites frigidus	_	2		FACW	% Bare Ground		
8.	Aconitum delphinifolium	_	1		FAC	Total Cover of Bryophytes 10		
9.	Arctagrostis latifolia	_	1		FACW			
10.	Gentianella propinqua	_	0.1		FACU	Hydrophytic		
	Total Cover	: _!	53.1			Vegetation		
	50% of Total Cover:	26.55	20%	of Total Cover:	10.62	Present? Yes No		
Rem	Remarks:							

Profile Description: Depth —		he depth nee latrix	ded to docu	ument the indicator or confirm the absence of indicators) Redox Features					_		
(inches)	Color (moist)		%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3			100						Fibric Organics		
3-14	5Y	3/1	90	10YR	3/6	10	RM	PL	Sandy Loam		
							-	-	-		
									'		
								-			
			,					p			
¹ Type: C=Conce	entration. D=	Depletion.	RM=Reduc	ed Matrix	² Location	: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix		
Hydric Soil Indi	icators:			Indicat	ors for Pro	oblemati	c Hydric S	oils: ³			
Histosol or Hi					ka Color Ch		4	 _	Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epiped	. ,				ka Alpine sv		,		Underlying Layer		
Hydrogen Su					ka Redox W		-		Other (Explain in Remark	s)	
Thick Dark Su	. ,										
Alaska Gleyed	d (A13)						tic vegetation		mary indicator of wetland h	ydrology,	
Alaska Redox	(A14)						•	•	esent		
Alaska Gleyed	d Pores (A15)		⁴ Give o	letails of co	olor chang	e in Remarl	s			
Restrictive Layer ((if present):										
Туре:									Hydric Soil Present	Yes 🔿	No 🖲
Depth (inches):										
HYDROLOG	Y										
Wetland Hydrol									Secondary Indic	cators (two or mor	e are required)
Primary Indicator		s sufficient)							_	ned Leaves (B9)	
Surface Wate							erial Image			atterns (B10)	
High Water	. ,						ncave Surfa	ce (B8)	_	hizospheres along	
Saturation (A					Irl Deposits	. ,	(64)			f Reduced Iron (C4	+)
Sediment De					drogen Sul				Salt Deposi	Stressed Plants (D	1)
Drift Deposit					y-Season V her (Explaiı					c Position (D2)	(1)
Algal Mat or	. ,				ilei (Expiali		irks)		Shallow Aq	. ,	
Iron Deposit										raphic Relief (D4)	
Surface Soil	. ,								FAC-neutra		
Field Observatio	. ,										
Surface Water Pr	resent?	Yes 🖲	No \bigcirc	De	pth (inches	s): 2					
Water Table Pres	sent?	Yes \bigcirc	No 🖲	De	pth (inches	s):		Wetla	nd Hydrology Presen	t?Yes 🖲	No 🔿
Saturation Prese (includes capillar	nt?	Yes 🖲			pth (inches				, ,,		-
Describe Recorded		am gauge, I	monitor we	ell, aerial p	hotos, prev	vious inspe	ection) if av	ailable:			
Demender											
Remarks:											

innundated pits with rocky bottoms scattered around site. saturation not associated w water table or shallow restictive layer.