WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 05-Aug-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T35_02
Investigator(s): CTS, EKJ	Landform (hillside, terrace, hummocks etc.): Gulch or Gully
Local relief (concave, convex, none): concave	Slope: % / 10.0 ° Elevation: 108
Subregion : Southcentral Alaska La	tt.: 62.899328175 Long.: -148.673525648 Datum: NAD83
Soil Map Unit Name:	NWI classification: Upland
	year? Yes No (If no, explain in Remarks.) cantly disturbed? Are "Normal Circumstances" present? Yes No lly 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? Yes ○ No ● Hydric Soil Present? Yes ○ No ●	Is the Sampled Area

within a Wetland?

Yes 🔿 No 🖲

Wetland H	ydrology Present?
Remarks:	

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

 $\mathsf{Yes}\, \bigcirc\,$

No 🖲

		۵hs	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum			Cover	Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.		_	0			Total Number of Dominant Species Across All Strata: 5 (B)
3.		_	0			
4.		_	0			Percent of dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
ч. 5.		-	0			
5.	Total Cove	_				Prevalence Index worksheet:
-		_		of Total Course		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	_ 20% (of Total Cover:	0	OBL Species x 1 =
1.	Salix pulchra		2		FACW	FACW Species <u>20</u> x 2 = <u>40</u>
2.	Salix polaris		1		FACW	FAC Species <u>30</u> x 3 = <u>90</u>
3.	Empetrum nigrum		7	\checkmark	FAC	FACU Species <u>34</u> x 4 = <u>136</u>
4.	Cassiope tetragona		7	\checkmark	FACU	UPL Species x 5 =
5.	Vaccinium uliginosum		1		FAC	Column Totals: 84 (A) 266 (B)
6.	Vaccinium vitis-idaea		1		FAC	
7.	Spiraea stevenii		1		FACU	Prevalence Index = B/A = <u>3.167</u>
8.			0			Hydrophytic Vegetation Indicators:
			0			Dominance Test is > 50%
4.0			0			Prevalence Index is ≤3.0
Total Cover: 20					Morphological Adaptations ¹ (Provide supporting data in	
Her	b Stratum 50% of Total Cover:	10	20%	of Total Cover:	4	Remarks or on a separate sheet)
1.	Festuca altaica	_	7		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Calamagrostis canadensis	_	3		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus arcticus		8		FAC	be present, unless disturbed or problematic.
4.	Sibbaldia procumbens		10	\checkmark	FACU	Plat size (radius, ar length y width)
5.	Chamaenerion angustifolium		15	\checkmark	FACU	Plot size (radius, or length x width) <u>10m</u>
6.	Alopecurus magellanicus		2		FACW	% Cover of Wetland Bryophytes (Where applicable)
7.	Sanguisorba canadensis		15	\checkmark	FACW	% Bare Ground
8.	Artemisia norvegica		1		FACU	Total Cover of Bryophytes 20
9.	Carex microchaeta		1		FAC	
10.	Trisetum spicatum		2		FAC	Hydrophytic
Total Cover: 64 Vegetation						
	50% of Total Cover:	32		of Total Cover:	12.8	Present? Yes \bigcirc No \bigcirc
	_					

Remarks: Vahatr, Verwor, Carpod, Trieur, Luepec, Anenar, Pyrmin, Luz(arcuata), Bisviv, Camlas, Violan, Lycalp, Hiealp, Angluc, Carex anthoxanthea = 0.1 cover

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features							cators)				
(inches)	Depth		%	Color (moist)		Type ¹	Loc 2	Texture	Remarks		
0-1			100		%			Fibric Organics			
1-5	10YR	3/2	90					Sandy Loam	10% roots		
5-10	 10YR	, 3/3	95					Sandy Loam	5% roots		
10-11			100					Sandy Loam			
		3/4							few roots		
11-15	7.5YR	2.5/2	85					Sandy Loam	semiang gravel-cobbles w coarse sand		
¹ Type: C=Co	ncentration. D=	Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix	-		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³				
Histosol o	r Histel (A1)			Alaska Color C	hange (TA	4 1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	bedon (A2)			Alaska Alpine s	wales (TAS	5)	_	Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y H	lue		Other (Explain in Remarks)			
Thick Dar	k Surface (A12)			3 On a indiantan af					udua la aut		
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland h esent	yarology,		
Alaska Re											
Alaska Gle	eyed Pores (A15	5)		⁴ Give details of c			S				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (incl	hes):										
Remarks:											
no hydric soil i	ndicators										
HYDROLO	GY										
·	rology Indica	tors:						Secondary India	cators (two or more are required)		
Primary Indica	ators (any one is	s sufficien	t)					Water Stained Leaves (B9)			
Surface V	Vater (A1)			Inundation V	isible on A	erial Image	ry (B7)) Drainage Patterns (B10)			
🗌 High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ce (B8)	8) Oxidized Rhizospheres along Living Roots (C3)			
Saturation	n (A3)			Marl Deposit	s (B15)			Presence of Reduced Iron (C4)			
Water Ma	ırks (B1)			🗌 Hydrogen Su	lfide Odor	(C1)		Salt Deposits (C5)			
Sediment	Deposits (B2)			Dry-Season	Water Tabl	e (C2)		Stunted or Stressed Plants (D1)			
Drift Dep				Other (Expla	in in Rema	rks)			c Position (D2)		
	or Crust (B4)								uitard (D3)		
Iron Depo	. ,								raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra	l Test (D5)		
Field Observa		Nag (No 🖲		,						
Surface Wate	r Present?			Depth (inche	es):						
Water Table I		Yes) No 🖲	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes 🔿 No 🖲		
Saturation Pro (includes capi		Yes C) No 🖲	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Dam. 1											
Remarks: no wetland hydrology indicators											
no wetiand hyd	arology indicato	15									