WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date: 0	6-Aug-13		
Applicant/Owner: Alaska Energy Authority		Samplin	g Point: SW13	_T160_04		
Investigator(s): CTS, AMD	Landform (hillsi	de, terrace, hummocks etc.):	Gulch or Gully			
Local relief (concave, convex, none): flat	Slope: 3.0	% / <u>1.7</u> ° Elevation: <u>677</u>				
Subregion : Interior Alaska Mountains Lat.:	63.369489789	Long.: -148.8196877	724 Datum	n: WGS84		
Soil Map Unit Name:		NWI classif	ication: PSS1C			
	ar? Yes tly disturbed? problematic?	 No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answer) 	present? Yes 🖲	No O		
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 ●	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
Remarks:			

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

			Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum		% Cover		Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: <u>3</u> (A)		
2.	-		0			Total Number of Dominant Species Across All Strata: 5 (B)		
3.			0					
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)		
5.			0					
		Total Cover:	·			Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	ling/Shrub Stratum	50% of Total Cover:		of Total Cover:	0	OBL Species $0 \times 1 = 0$		
	Salix alaxensis		35		FAC			
2.			20		FACW			
3.	Salix pseudomonticola		7		FAC	FACU Species <u>6</u> x 4 = <u>24</u>		
4.	Dasiphora fruticosa		8		FAC	UPL Species x 5 =		
5.	Salix reticulata		4		FAC	Column Totals: <u>99</u> (A) <u>280</u> (B)		
					FAC	Prevalence Index = B/A = 2.828		
7.			0					
8.			0			Hydrophytic Vegetation Indicators:		
						✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
		Total Cover:	89			Morphological Adaptations ¹ (Provide supporting data in		
Her	b Stratum	50% of Total Cover:	44.5 209	% of Total Cover	17.8	Remarks or on a separate sheet)		
1.	Equisetum scirpoides		2	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex media		2	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Chamerion latifolium		1		FAC	be present, unless disturbed or problematic.		
4.	Carex scirpoidea		1		FACU	Plot size (radius, or length x width) 10m		
5.	Parnassia palustris		-		FACW	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Rubus arcticus (IAM)		3	\checkmark	FACU	(Where applicable)		
7.			0			% Bare Ground45		
8.			0			Total Cover of Bryophytes 35		
			0					
			0			Hydrophytic		
		Total Cover:	10			Vegetation		
		50% of Total Cover:	5 20%	of Total Cover:	2	Present? Yes \bullet No \bigcirc		
Rem	arks: Lichen = 0	Remarks: Lichen = 0						

	Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features			ators)					
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-2	10YR	2/1	100					Loam	
2-5	5Y	3/2	100					Loamy Sand	
5-10		3/1	100		-			Loamy Sand	Lots of organics mixed with sand
10-15									Lots of gravel/boulders, only boulders belo
¹ Type: C=Cor	ncentration. D	=Depletior	. RM=Reduc	ed Matrix ² Location		-		nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr		4	oils: ³	_	
Histosol or	r Histel (A1)			Alaska Color Ch		-		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	•	,		Underlying Layer	
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	V	Other (Explain in Remar	ks)
	CSurface (A12	2)		³ One indicator of	hvdrophvt	tic vegetation	n, one prin	nary indicator of wetland h	nydrology.
Alaska Gle				and an appropriat					
Alaska Rec	ox (A14) yed Pores (A1	E)		⁴ Give details of co	olor chang	e in Remark	s		
		•							
Restrictive Laye	er (if present):	:							
Type:								Hydric Soil Present	? Yes 🖲 No 🔿
Depth (inch	ies):								
Remarks:									
insufficient orga	anic material f	for redox d	evelopment.	Based on mulptiple p	primary hy	drology indi	cators and	hydrophytic vegetation, a	ssume soils are hydric.
HYDROLO									
Wetland Hyd									cators (two or more are required)
Primary Indica		is sufficier	t)				(87)		ined Leaves (B9)
Surface W	er Table (A1)			Inundation Vi		-			Patterns (B10) hizospheres along Living Roots (C3)
Saturation	()			Sparsely Vege		ICave Surrac	е (во)	_	of Reduced Iron (C4)
Water Ma	. ,			Hydrogen Sul	. ,	(C1)			
	Deposits (B2))		Dry-Season V		. ,			Stressed Plants (D1)
Drift Depo				Other (Explai					ic Position (D2)
Algal Mat	or Crust (B4)					,		Shallow A	quitard (D3)
Iron Depo	osits (B5)							Microtopo	graphic Relief (D4)
Surface Se	oil Cracks (B6))						FAC-neutra	al Test (D5)
Field Observa	ations:								
Surface Water	r Present?) No 🖲	Depth (inche	s):				
Water Table P	Present?	Yes 🤆	● No ○	Depth (inche	s): 11		Wetla	nd Hydrology Preser	it? Yes 🖲 No 🔾
Saturation Pre (includes capil		Yes 🤆	• No O	Depth (inche	s): 7				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
None									