## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling I	Date: 25-Jun-12
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW12_T28_11
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): undulating	Slope: 36.3	% / 20.0 ° Elevation: 745	
Subregion : Interior Alaska Mountains La	t.: 62.876529908	2 Long.: -148.376679971	Datum: WGS84
Soil Map Unit Name:		NWI classification: נ	Jpland
	year? Yes antly disturbed? ly problematic?	<ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present?</li> <li>(If needed, explain any answers in Rem</li> </ul>	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing s	sampling point	locations, transects, important featu	ures, etc.
Hydrophytic Vegetation Present? Yes O No 🖲		the Sempled Area	
	IS	the Sampled Area	

within a Wetland?

Yes 🔿 No 🖲

Hydric Soil Present?

Wetland Hydrology Present?

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

Yes 🔿 No 🖲

Yes 🔿 No 🖲

	•	bsolute	Dominant	Indicator	Dominance Test worksheet:
Tre		6 Cover	Species?	Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: (A)
2.		0			Total Number of Dominant
3.		0			Species Across All Strata: <u>2</u> (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
4. 5.					
5.	7.1.10	0			Prevalence Index worksheet:
			<b>6</b>		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum     50% of Total Cover:     0	20%	of Total Cover:	0	OBL Species x 1 =
1.	Alnus viridis ssp. crispa	75	$\checkmark$	FAC	FACW Species x 2 =0
2.	Ribes glandulosum	5		FACU	FAC Species <u>80</u> x 3 = <u>240</u>
3.	Linnaea borealis	2		FACU	FACU Species <u>31</u> x 4 = <u>124</u>
4.		0			UPL Species x 5 =
5.		0			Column Totals: <u>111</u> (A) <u>364</u> (B)
		0			
		0			Prevalence Index = B/A =3.279_
		0			Hydrophytic Vegetation Indicators:
		0			Dominance Test is > 50%
		0			Prevalence Index is ≤3.0
	Total Cover:	82			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum 50% of Total Cover:4		of Total Cover:	16.4	Remarks or on a separate sheet)
1.	Cornus canadensis	20	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Calamagrostis canadensis	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Trientalis europaea	2		FACU	be present, unless disturbed or problematic.
4.	Spinulum annotinum	2		FACU	Plot size (radius, or length x width) 10m
5.		0			
6.		0			% Cover of Wetland Bryophytes (Where applicable)
		0			% Bare Ground
		0			Total Cover of Bryophytes 5
		0			<u> </u>
		0			Hydrophytic
	Total Cover:	29			Vegetation
	50% of Total Cover:14.	5 20%	of Total Cover:	5.8	Present? Yes No 💿
Rem	arks: tr acodel galbor merpan drydil picgla (tree)				

	ion: (Describe to the depth needed to doc Matrix				confirm the ab		cators)			
Depth (inches)	Color (moist)		%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-2			100					Fibric Organics	30 % roots	
2-3			100					Hemic Organics		
3-5	7.5YR	2.5/2	100	·				Loamy Sand	5% roots	
5-6			100					Sapric Organics		
6-10	7.5YR	3/3	100					Sandy Loam	organic inclusions	
10-13	10YR	3/4	100					Coarse Loamy Sand	fine to coarse sand	
13-14			100					Sapric Organics		
14-17	7.5YR	2/1	100	· ·				Silt Loam	stained by charcoal	
<sup>1</sup> Type: C=Cor	ncentration. D	)=Depletio	n. RM=Redi	uced Matrix <sup>2</sup> Locati	on: PL=Por	re Lining. R	C=Root Cha	annel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for F	Problemati	ic Hydric S	oils <sup>3</sup>			
Histosol or Histic Epip Hydrogen Thick Dark Alaska Gle Alaska Gle Alaska Gle Restrictive Laye Type: Depth (inch Remarks: historical fire la	r Histel (A1) bedon (A2) Sulfide (A4) < Surface (A1 eyed (A13) dox (A14) eyed Pores (A er (if present) nes):	15)	d and ash	Alaska Color ( Alaska Alpine Alaska Redox	Change (TA e swales (TA < With 2.5Y I of hydrophy iate landscaj	4) 5) Hue tic vegetation pe position	on, one prir must be pre	Alaska Gleyed Withou Underlying Layer Other (Explain in Rem nary indicator of wetlan esent Hydric Soil Prese	narks) Id hydrology,	
HYDROLO Wetland Hyd		ators:						Secondary I	ndicators (two or more are required)	
Primary Indicators (any one is sufficient)						Stained Leaves (B9)				
Surface W				Inundation	Visible on A	Aerial Image	ery (B7)		je Patterns (B10)	
High Water Table (A2)			egetated Co	-		Oxidized Rhizospheres along Living Roots (C3)				
Saturation	n (A3)			Marl Depos	-		( )	Presence of Reduced Iron (C4)		
Water Marks (B1)				Sulfide Odor	(C1)		Salt Deposits (C5)			
Sediment Deposits (B2)			Dry-Season	n Water Tab	le (C2)		Stunted or Stressed Plants (D1)			

Sediment Deposits (B2)			Dry-Season Water Table (C2)	)	Stunted or Stressed Plants (D1)
Drift Deposits (B3)			Other (Explain in Remarks)		Geomorphic Position (D2)
Algal Mat or Crust (B4)					Shallow Aquitard (D3)
Iron Deposits (B5)					Microtopographic Relief (D4)
Surface Soil Cracks (B6)					FAC-neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes $\bigcirc$	No 🖲	Depth (inches):		
Water Table Present?	Yes $\bigcirc$	No 🖲	Depth (inches):		Wetland Hydrology Present? Yes $\bigcirc$ No $oldsymbol{igodol}$
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):		
Describe Recorded Data (stream	n gauge, m	onitor well	l, aerial photos, previous inspection)	if availa	able:
Remarks:					