## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling E	Date: 27-Jun-12
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW12_T24_04
Investigator(s): SLI, LMF	Landform (hill	side, terrace, hummocks etc.): Plateau	
Local relief (concave, convex, none): hummocky	Slope: 5.2	% / 3.0 ° Elevation: 823	
Subregion : Copper River Basin Lat	.: 62.657019908	3 Long.: -147.395789977	Datum: WGS84
Soil Map Unit Name:		NWI classification:	pland
	ear? Yes antly disturbed? y problematic?	<ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present?</li> <li>(If needed, explain any answers in Remarks)</li> </ul>	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, important featu	ires, etc.
Hydrophytic Vegetation Present? Yes $\bigcirc$ No $oldsymbol{igodol}$	_		
	IS	the Sampled Area	

within a Wetland?

Yes 🔿 No 🖲

Remarks:

Hydric Soil Present?

Wetland Hydrology Present?

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

Yes 🔿 No 🖲

Yes 🔿 No 🖲

		Absolute	e Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species
1.	Picea glauca	15	$\checkmark$	FACU	That are OBL, FACW, or FAC: (A)
2.		0			Total Number of Dominant Species Across All Strata: 7 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: <u>28.6%</u> (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	15	_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum50% of Total Cover:	7.5 209	% of Total Cover:	3	OBL Species $0 \times 1 = 0$
1.	Picea glauca	5		FACU	FACW Species 3 x 2 = 6
2.	Betula glandulosa	45		FAC	FAC Species <u>120</u> x 3 = <u>360</u>
3.	Empetrum nigrum	10		FAC	FACU Species x 4 =100
4.	Vaccinium uliginosum	25		FAC	UPL Species $0 \times 5 = 0$
5.	Vaccinium vitis-idaea	10		FAC	Column Totals: <u>148</u> (A) <u>466</u> (B)
6.	Ledum groenlandicum	15		FAC	
7.	Salix glauca			FAC	Prevalence Index = B/A = <u>3.149</u>
8.	Salix pulchra	~		FACW	Hydrophytic Vegetation Indicators:
9.					Dominance Test is > 50%
					Prevalence Index is ≤3.0
	Total Cover:		_		Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum 50% of Total Cover:	64 20		25.6	Remarks or on a separate sheet)
1.	Cornus canadensis	1	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Spinulum annotinum	2	$\checkmark$	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Diphasiastrum complanatum	1	$\checkmark$	FACU	be present, unless disturbed or problematic.
4.	Chamerion angustifolium	1	$\checkmark$	FACU	Plot size (radius, or length x width) 10m
5.		0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
					(Where applicable)
		-			% Bare Ground 2
					Total Cover of Bryophytes 60
		0			Hydrophytic
	Total Cover:	5	_		Vegetation
	50% of Total Cover:	2.5 209	% of Total Cover:	1	Present? Yes $\bigcirc$ No $\bigcirc$
Dom	arks: fruticaca and cructaca lichang throughout cita	trace uni	dontified areas		

ose and crustose lichens throughout site. trace unidentified grass.

	<b>C</b> -1(	Matrix		0-1(		ox Featu		Loc 2	Texture	Remarks
(inches) 0-3	Color (me	oist)	%	Color (m	oist)	%	Type <sup>1</sup>	<u>Loc</u>	Fibric Organics	Remarks
3-18	7.5YR	2.5/3	90						Loamy Sand	10% med to coarse sub ang to rounde
5 10		2.5/5								
	·					k				
		-Depletion		cod Matrix	<sup>2</sup> Location		Lining P(		annel. M=Matrix	
ydric Soil In			. RH=Redu		ors for Pro		-			
Histosol or					a Color Ch		4	C	] Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipe	. ,				a Alpine sv				Underlying Layer	
	Sulfide (A4)			Alask	ka Redox W	ith 2.5Y H	ue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12	2)								
Alaska Gley	yed (A13)							on, one prir must be pr	mary indicator of wetland	hydrology,
Alaska Red	lox (A14)					-	-			
Alaska Gley	yed Pores (A1	.5)		Give u	etails of co	or change	III Kellial	KS		
estrictive Laye	er (if present)	:								
Type:									Hydric Soil Present	t? Yes 🔾 No 🖲
Type: Depth (inch	ies):								Hydric Soil Present	t? Yes ∪ No ♥
Depth (inch									Hydric Soil Present	? Yes ∪ No ♥
Depth (inch									Hydric Soil Present	?? Yes ∪ No ♥
Depth (inch									Hydric Soil Present	?? Yes ∪ No ♥
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Depth (incher emarks:	dicators								Hydric Soil Present	? Yes ∪ No ♥
Depth (incher emarks: p hydric soil inc YDROLOG	dicators									
Depth (incher emarks: b hydric soil in YDROLO( /etland Hydr	dicators GY rology Indica								_Secondary Ind	icators (two or more are required)
Depth (inch emarks: ) hydric soil in YDROLO( retland Hydr rimary Indicat	dicators GY rology Indic: tors (any one		t)		undation Vi	sible on A	rial Image	ory (87)	Water Sta	icators (two or more are required) ined Leaves (B9)
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Remarks:

no wetland hydrology indicators