## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough	/City: Matanuska-Su	sitna Borough Sar	mpling Date: 24-Aug-15
Applicant/Owner: Alaska Energy Authority			Sampling P	Point: SW15_T324_07
Investigator(s): ERT, TXC	Landfo	rm (hillside, terrace, hu	mmocks etc.): To	peslope
Local relief (concave, convex, none): flat	Slope:	1.7 %/ 1.0 °	Elevation:	
Subregion : Cook Inlet Mountains	Lat.:	Lon	g.:	Datum: WGS84
Soil Map Unit Name:			NWI classifica	tion: PEM1B
Are Climatic/hydrologic conditions on the site typical for Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology	significantly distur	tic? (If needed,	(If no, explain in Rei I Circumstances" pre explain any answers	sent? Yes ● No ○ in Remarks.)
UMMARY OF FINDINGS - Attach site ma		point locations, tra	nsects, importan	t reatures, etc.
Hydrophytic Vegetation Present?       Yes ●         Hydric Soil Present?       Yes ●         Wetland Hydrology Present?       Yes ●	No () No () No ()	Is the Sampled within a Wetla		● No ○
Remarks:				
VEGETATION - Use scientific names of pla	nts. List all species i	n the plot.		
	Absolute Dom	inant Indicator	minance Test worksh	eet:
Tree Stratum	% Cover Spe	cies? Status Nul	mber of Dominant Speci	

	e Stratum	-70 COVE	species:	Status	That are OBL, FACW, or FAC: 3 (A)
1.			_		
2.					Total Number of Dominant Species Across All Strata: 3 (B)
3.					Percent of dominant Species
4.			-		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			-  -		
0.	Total Cover:		-		Prevalence Index worksheet:
					Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =
1.	Dasiphora fruticosa	7	$\checkmark$	FAC	FACW Species <u>5.1</u> $x 2 = 10.2$
2.	Salix fuscescens	3	$\checkmark$	FACW	FAC Species <u>12</u> x 3 = <u>36</u>
3.	Salix pulchra	່າ		FACW	FACU Species <u>0</u> x 4 = <u>0</u>
4.					UPL Species x 5 =
5.					Column Totals: <u>37.1</u> (A) <u>66.2</u> (B)
6.		-			
7					Prevalence Index = B/A = <u>1.784</u>
			- n		Hydrophytic Vegetation Indicators:
			-		✓ Dominance Test is > 50%
		0	-		✓ Prevalence Index is $\leq 3.0$
	Total Cover:	12			
Her	b Stratum 50% of Total Cover:			2.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	15		OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Equisetum fluviatile	2		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis	F		FAC	be present, unless disturbed or problematic.
4.		2		OBL	
5.	Comarum palustre	1		OBL	Plot size (radius, or length x width) <u>10m</u>
6.	Viola palustris	0.1		FACW	% Cover of Wetland Bryophytes <u>100</u> (Where applicable)
7.		-			% Bare Ground 0
					Total Cover of Bryophytes 100
					<u>100</u>
		0			Hydrophytic
	Total Cover:	25.1	-		Vegetation
	50% of Total Cover:	5.02	Present? Yes $\bullet$ No $\bigcirc$		
Dom	arks:				<u>.</u>
Reff	iai N3.				

SOIL

Depth			Rei	dox Featu			_				
(inches) Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	<u>Loc</u> <sup>2</sup>		Texture		Remark	s
0-4							Peat		Oi1		
4-8							Peat		Oi2		
8-16							Muck	y Peat	Oe		
									-		
		,									
				-		-					
Type: C=Concentration. D=					Lining DC	-Doot Ch		1-Matrix			
ydric Soil Indicators:			Indicators for Pr				annei. r				
-			Alaska Color Ch		4	/iis.		a Gleyed Witho		or Doddor	
] Histosol or Histel (A1) ] Histic Epipedon (A2)			Alaska Color Cr		-		Unde	rlying Layer	ut nue 51 i	or Redder	
Hydrogen Sulfide (A4)			Alaska Redox V	•	,		-	(Explain in Re	marks)		
Thick Dark Surface (A12	1						-		,		
Alaska Gleyed (A13)			<sup>3</sup> One indicator of	hydrophyt	ic vegetatio	n, one prir	mary in	dicator of wetla	nd hydrolo	gy,	
Alaska Redox (A14)			and an appropriat	e landscap	e position n	nust be pr	esent				
Alaska Gleyed Pores (A1	5)		<sup>4</sup> Give details of co	olor change	e in Remark	S					
strictive Layer (if present):											
Туре:							Hyd	ric Soil Pres	ent?	Yes 💿 🛛 No	0
Depth (inches):											
marks:											
marks:											
marks: /DROLOGY	tors							Secondary	Indicators		required
marks: DROLOGY etland Hydrology Indica										(two or more are	e required)
marks: <b>DROLOGY</b> etland Hydrology Indica mary Indicators (any one				isible on A	erial Imager	y (B7)		U Water	Stained Le	aves (B9)	e required)
marks: DROLOGY stland Hydrology Indica mary Indicators (any one ] Surface Water (A1)			Inundation V Sparsely Veg					Water	Stained Le Ige Pattern	aves (B9) s (B10)	
narks: DROLOGY Itland Hydrology Indica mary Indicators (any one Surface Water (A1) High Water Table (A2)			Sparsely Veg	etated Con				Water	Stained Le Ige Pattern ed Rhizospl	aves (B9)	
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TOROLOGY         etland Hydrology Indicationary Indicators (any one)         Surface Water (A1)         High Water Table (A2)			Sparsely Veg	etated Con s (B15) Ifide Odor	icave Surfac (C1)			Water Uraina Oraina Oxidiz Preser Salt D	Stained Le age Pattern ed Rhizospl ace of Redu eposits (C5	aves (B9) s (B10) heres along Livin Iced Iron (C4)	
<b>DROLOGY ettand Hydrology Indica</b> imary Indicators (any one         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)			Sparsely Vege Marl Deposits Hydrogen Su	etated Con 5 (B15) Ifide Odor Water Table	icave Surfac (C1) e (C2)			Water Draina Oxidiz Preser Salt D Stunte	Stained Le age Pattern ed Rhizospl ace of Redu eposits (C5	aves (B9) s (B10) heres along Livin need Iron (C4) ) sed Plants (D1)	
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