## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T330_02
nvestigator(s): AFW		Landform (hil	lside, terrac	e, hummocks etc.): Valley bottom
Local relief (concave, convex, none): hummocky		Slope: 5.2	% / 3.0	° Elevation:
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: PSS1B
Are climatic/hydrologic conditions on the site typical for this ti	ima af vaa	r2 Vac	● No ○	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology .  SUMMARY OF FINDINGS - Attach site map shot	significant naturally p wing sar	ly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes  No O
Hydrophytic Vegetation Present? Yes   No C		le	the Sam	pled Area
Hydric Soil Present? Yes   No   No   O			ithin a W	-
Wetland Hydrology Present? Yes ● No C	)	W	illiiii a vv	etianur 165 e 116 e
Remarks:				
VEGETATION - Use scientific names of plants. Li	ist all sp		plot.	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.				Total Number of Dominant
2				Species Across All Strata: 4 (B)
3.				Percent of dominant Species
4				That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				Prevalence Index worksheet:
Total Cover		_		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species x 1 =
Betula glandulosa	30	<b>✓</b>	FAC	FACW Species <u>35</u> x 2 = <u>70</u>
2. Betula nana	15	<b>✓</b>	FAC	FAC Species 90 x 3 = 270
Salix pulchra	15	<b>✓</b>	FACW	FACU Species x 4 =0
Rhododendron tomentosum	12		FACW	UPL Species <u>0</u> x 5 = <u>0</u>
Vaccinium vitis-idaea	10		FAC	Column Totals: <u>125</u> (A) <u>340</u> (B)
6. Empetrum nigrum	10		FAC	Prevalence Index = B/A =
7. Vaccinium uliginosum			FAC	<u> </u>
8.				Hydrophytic Vegetation Indicators:
9.				✓ Dominance Test is > 50%
10Total Cover				✓ Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:		_ % of Total Cove	r: 19.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Carex bigelowii	18	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)
Arctagrostis latifolia			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Petasites frigidus			FACW	be present, unless disturbed or problematic.
4.				District of all and booth with the
5.				Plot size (radius, or length x width) 10m
6.	_			% Cover of Wetland Bryophytes (Where applicable)
7				% Bare Ground35
8				Total Cover of Bryophytes 60
9	0			
10	0			Hydrophytic
Total Cover		-		Vegetation Present? Yes ● No ○
50% of Total Cover:	13 209	% of Total Cover	:5.2	Present? Yes ● No ○
Remarks:				

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SOIL Sampling Point: SW15\_T330\_02

(inches) Color (mo	oist)	%	Color (n	noist)	%	Type <sup>1</sup>	_Loc_ <sup>2</sup>	Texture	Remarks
0-4		100						Mucky Peat	_
4-5		100						Muck	
5-18 5Y	4/1	85	10YR	4/4	15	C	PL	Silt Loam	semi rounded gravels and sand 3% of rhyz roots
Type: C=Concentration. D=	=Depletion.	RM=Reduc						annel. M=Matrix	-
dric Soil Indicators:				tors for Pro		4	oils:	7	
Histosol or Histel (A1) Histic Epipedon (A2)			Alas	ska Color Ch ska Alpine sv	wales (TA	5)		<ul><li>Alaska Gleyed Without I Underlying Layer</li><li>Other (Explain in Rema</li></ul>	
Hydrogen Sulfide (A4)			∟ Alas	ska Redox W	/ith 2.5Y F	iue		J Other (Explain in Remai	15)
Thick Dark Surface (A12) Alaska Gleyed (A13)	)			ndicator of lappropriate				mary indicator of wetland esent	hydrology,
Alaska Redox (A14) Alaska Gleyed Pores (A1	<b>F</b> \		4 Give	details of co	lor change	e in Remark	(S		
strictive Layer (if present):								Undria Cail Droson	t? Yes • No O
Type: Depth (inches):								Hydric Soil Presen	L? TES © NO C
Type: Depth (inches): marks:								nyuric son Presen	L? TES © NO C
Type: Depth (inches): marks:									
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Type: Depth (inches): marks:  DROLOGY etland Hydrology Indicationary Indicators (any one		)		undation Vi	sible on A	erial Image	ry (R7)	Secondary Inc	icators (two or more are required) ined Leaves (B9)
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