WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Proje	ect Borou	ugh/City: Matanuska	-Susitna Borough	Sampling Date:	23-Aug-15
Applicant/Owner: Alaska Energy Authority			Sampl	ing Point:S	N15_T308_04
nvestigator(s): GVF	Lan	dform (hillside, terrace	, hummocks etc.):	Toeslope	
Local relief (concave, convex, none): flat	Slo	pe: 0.0 % / 0.0	Elevation:		
Subregion : Interior Alaska Mountains	Lat.:		Long.:	D	atum: WGS84
Soil Map Unit Name:			NWI class	ification: PEM1E	Ξ
Are climatic/hydrologic conditions on the site typical Are Vegetation , Soil , or Hydrolog Are Vegetation , Soil , or Hydrolog	y Significantly dis y naturally proble	ematic? (If need	(If no, explain ir rmal Circumstances ed, explain any ansv	" present? Yes wers in Remarks.)	
SUMMARY OF FINDINGS - Attach site m		ng point locations,	transects, impo	rtant features,	etc.
Hydrophytic Vegetation Present? Yes • Hydric Soil Present? Yes • Wetland Hydrology Present? Yes •) No ()	Is the Samp within a We		ies 🖲 No 🔿	
Remarks:					
VEGETATION - Use scientific names of p	Absolute D	ominant Indicator	Dominance Test wo		
Tree Stratum	% Cover S	Species? Status	Number of Dominant		4 (A)

1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
				Species Across All Strata: (B)
3.				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
4.				That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet:
-	0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0	_ 20% of Tot	tal Cover:	0	OBL Species <u>14.1</u> x 1 = <u>14.1</u>
1. Dasiphora fruticosa	5	\checkmark	FAC	FACW Species <u>20.1</u> x 2 = <u>40.20</u>
2. Betula nana	5	\checkmark	FAC	FAC Species <u>11.2</u> x 3 = <u>33.60</u>
3. Myrica gale	3	\checkmark	OBL	FACU Species <u>0</u> x 4 = <u>0</u>
4.	0			UPL Species x 5 =
5.	0			Column Totals: <u>45.4</u> (A) <u>87.90</u> (B)
6.	0			
7	0			Prevalence Index = B/A = <u>1.936</u>
8.	0			Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10.	0			✓ Prevalence Index is ≤ 3.0
Total Cover:	13			Morphological Adaptations (Provide supporting data in
Herb Stratum 50% of Total Cover: 6.5	20% of To	tal Cover:	2.6	Remarks or on a separate sheet)
1. Carex saxatilis	20	\checkmark	FACW	Problematic Hydrophytic Vegetation (Explain)
2. Eriophorum angustifolium	5		OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Equisetum fluviatile	5		OBL	be present, unless disturbed or problematic.
4. Carex canescens(IAM)	1		FAC	
5. Carex rotundata	1		OBL	Plot size (radius, or length x width) <u>5m</u>
6. Comarum palustre	0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)
7. Calamagrostis canadensis	0.1		FAC	% Bare Ground _55
8. Viola palustris(IAM)	0.1		FAC	Total Cover of Bryophytes 5
9. Sanguisorba canadensis	0.1		FACW	
10.	0			Hydrophytic
Total Cover:	32.4			Vegetation
50% of Total Cover: <u>16.2</u>	20% of Tot	tal Cover:	6.48	Present? Yes \bullet No \bigcirc
Remarks: bare ground is mostly water.				

SOIL

	% Color (I	moist) %	Type ¹	Loc ²	Texture	Remarks
0-5					Peat	
5-17					Mucky Peat	buried mineral at 10 in, silty.
					-	
						-
						1 -
Type: C=Concentration. D=Depletion. R			-		nnel. M=Matrix	
ydric Soil Indicators:		tors for Problema	4	oils:	_	
Histosol or Histel (A1)		ska Color Change (⁻	-		Alaska Gleyed Without H	ue 5Y or Redder
] Histic Epipedon (A2)		ska Alpine swales (,	_	Underlying Layer	
J Hydrogen Sulfide (A4)		ska Redox With 2.5	Y Hue		Other (Explain in Remark	KS)
Thick Dark Surface (A12)	³ One	indicator of hydrop	nytic vegetatio	on, one prin	nary indicator of wetland h	nydrology,
Alaska Gleyed (A13)	and ar	n appropriate lands	cape position	must be pre	esent	, ,,,
] Alaska Redox (A14)] Alaska Gleyed Pores (A15)	⁴ Give	details of color cha	nge in Remar	ks		
strictive Layer (if present):						? Yes 🖲 No 🔾
Type: Depth (inches):					Hydric Soil Present	? Yes 🖲 No 🔾
emarks:						
/DROLOGY						
(DROLOGY etland Hydrology Indicators:						cators (two or more are required)
DROLOGY etland Hydrology Indicators: mary Indicators (any one is sufficient).					Water Stai	ined Leaves (B9)
DROLOGY etland Hydrology Indicators: imary Indicators (any one is sufficient) Surface Water (A1)		nundation Visible or	-	, , ,	Water Stai	ned Leaves (B9) Patterns (B10)
DROLOGY etland Hydrology Indicators: mary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2)		parsely Vegetated (-	, , ,	Unater Stai	ined Leaves (B9) Patterns (B10) Ihizospheres along Living Roots (C
DROLOGY etland Hydrology Indicators: mary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3)	□ S □ M	parsely Vegetated (larl Deposits (B15)	Concave Surfa	, , ,	Water Stai Water Stai Drainage F Oxidized R Presence c	ined Leaves (B9) Patterns (B10) hizospheres along Living Roots (C of Reduced Iron (C4)
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5--iron flocculent and biogenic sheen. D2--toeslope