## WETLAND DETERMINATION DATA FORM - Alaska Region

,	ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 24-Jun-12		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T07_08		
Invest	igator(s): JGK		Landform (hillside, terrace, hummocks etc.): Floodplain				
	relief (concave, convex, none): flat		Slope: % / 4.5 ° Elevation: 476				
Subre	gion : Interior Alaska Mountains	Lat ·	62.831398101		Long.: -148.262955705 Datum: NAD83		
	ap Unit Name:	Lut	02.03 1330 10 1	<u> </u>			
	·		-0 Voo	No ○	NWI classification: PSS1/EM1C		
	imatic/hydrologic conditions on the site typical for this tin Vegetation $\square$ , Soil $\square$ , or Hydrology $\square$ s	•	v disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○		
		0	roblematic?		eded, explain any answers in Remarks.)		
				·			
SUM	MARY OF FINDINGS - Attach site map show	ving san	npling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No						
	Hydric Soil Present? Yes ● No ○		Is the Sampled Area				
	Wetland Hydrology Present? Yes   No		Wi	thin a W	etland? Yes ● No ○		
Rem	arks:						
VEGI	ETATION -Use scientific names of plants. Lis	st all spe	ecies in the	plot.			
		Absolute			Dominance Test worksheet:		
Tre	ee Stratum	% Cover		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:  4 (A)		
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:				Total % Cover of: Multiply by:		
Sap	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =0		
1.	Salix commutata	35	<b>✓</b>	FAC	FACW Species 0 x 2 = 0		
2.	Dasiphora fruticosa	5		FAC	FAC Species <u>84</u> x 3 = <u>252</u>		
3.	Alnus viridis	5		FAC	FACU Species 13 x 4 = 52		
4.	Populus balsamifera	5		FACU	UPL Species0 x 5 =0		
5.	Salix pseudomonticola	_ 5		FAC	Column Totals: <u>97</u> (A) <u>304</u> (B)		
6.	Vaccinium uliginosum	5		FAC			
7.		2		FAC	Prevalence Index = B/A = 3.134		
8.	Picea glauca	_1_		FACU	Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0		FACU	Prevalence Index is ≤3.0		
	Total Cover:		% of Total Cover	. 126	Morphological Adaptations <sup>1</sup> (Provide supporting data in		
	rb Stratum 50% of Total Cover:	31.5 209			Remarks or on a separate sheet)		
1.	rb Stratum 50% of Total Cover:	31.5 209 15	<b>✓</b>	FAC	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
1. 2.	For Stratum 50% of Total Cover:  Equisetum arvense Calamagrostis canadensis	15 5	<b>✓</b>	FAC FAC	Remarks or on a separate sheet)		
1. 2. 3.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii	31.5 209 15 5	<b>✓</b>	FAC FAC	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must		
1. 2. 3. 4.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum	15 5 5 5	<b>✓</b>	FAC FAC FACU	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  10m		
1. 2. 3. 4. 5.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum  Chamaenerion angustifolium	15 5 5 5 2	<b>✓</b>	FAC FAC	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  Cover of Wetland Bryophytes		
1. 2. 3. 4. 5. 6.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum  Chamaenerion angustifolium  Valeriana capitata	15 5 5 5 2 2	<b>✓</b>	FAC FAC FACU FACU	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  Cover of Wetland Bryophytes (Where applicable)		
1. 2. 3. 4. 5. 6. 7.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum  Chamaenerion angustifolium  Valeriana capitata	15 5 5 5 2 2	<b>✓</b>	FAC FAC FACU FACU	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  Cover of Wetland Bryophytes (Where applicable)  Bare Ground		
1. 2. 3. 4. 5. 6. 7. 8.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum  Chamaenerion angustifolium  Valeriana capitata	15 5 5 5 2 2 0	<b>✓</b>	FAC FAC FACU FACU	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  Cover of Wetland Bryophytes (Where applicable)		
1. 2. 3. 4. 5. 6. 7. 8. 9.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum  Chamaenerion angustifolium  Valeriana capitata	15 5 5 5 2 2 0	<b>✓</b>	FAC FAC FACU FACU	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  Total Cover of Bryophytes		
1. 2. 3. 4. 5. 6. 7. 8. 9.	Equisetum arvense  Calamagrostis canadensis  Sanguisorba menziesii  Hedysarum alpinum  Chamaenerion angustifolium  Valeriana capitata	15 5 5 5 2 2 0 0	<b>✓</b>	FAC FAC FACU FACU	Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  Cover of Wetland Bryophytes (Where applicable)  Bare Ground		

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SOIL Sampling Point: SW12\_T07\_08

Profile Description	on: (Describe to t	he depth need	ded to docume	ent the inc		firm the abs		ators)				
(inches)	Color (moi	st)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-5			80						Hemic Organics	some sand w 20% roots		
5-15	2.5Y	3/2	90	10YR	4/6	10		PL	Fine Loamy Sand			
					· · ·	-						
¹Type: C=Con	centration. D=	Depletion. F					_		nnel. M=Matrix			
Hydric Soil In	ndicators:		1	Indicat	ors for Pro	oblematio	Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)		Į	Alasi	ka Color Ch	ange (TA4	ue 5Y or Redder					
Histic Epip	edon (A2)		Ĺ	Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen	Sulfide (A4)		Ľ	<b>✓</b> Alasl	ka Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	ss)		
Thick Dark	Surface (A12)			3 One in	licator of	L. dranhuti	:- vezetatio	- ana nrin	···· indicator of wotland b	ر برو دادماد،		
Alaska Gle							ic vegetatio e position r		nary indicator of wetland h esent	ydrology,		
Alaska Red						•	•	•				
	yed Pores (A15	)		*Give u	letalis oi cc	olor change	e in Remark	S				
Restrictive Laye	er (if present):									· · · · ·		
Type:									Hydric Soil Present? Yes ● No ○			
Depth (inch	ies):											
HYDROLO												
Wetland Hydr									Secondary Indi	cators (two or more are required)		
	tors (any one is	s sufficient)							Water Stair	ned Leaves (B9)		
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)					☐ Drainage Patterns (B10)			
☐ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					☐ Salt Deposits (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)						Stressed Plants (D1)		
✓ Drift Deposits (B3)  Algal Mat or Crust (B4)				Other (Explain in Remarks)						c Position (D2)		
							☐ Shallow Aq					
☐ Iron Deposits (B5)										raphic Relief (D4)		
	oil Cracks (B6)							1	☐ FAC-neutra	Test (D5)		
Field Observa		Yes 〇	Na 📵	_								
Surface Water				De	epth (inche	s):				O O		
Water Table P		Yes 🔾	No 🖭	De	epth (inche	s):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre (includes capil		Yes O	No •	Depth (inches):								
Describe Record	ded Data (strea	am gauge, n	nonitor well,	aerial p	hotos, prev	ious inspe	ction) if ava	ilable:				
Remarks:												
Evidence of hig	h water (trann	od dobric in	vegetation)									
Evidence of flig		eu deblis III	veuetation									
	iii water (trapp		5									
	iii watei (a app		,									

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