WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Proje	ect	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15							
Applicant/Owner: Alaska Energy Authority		_		Sampling Point: SW15_T346_02							
nvestigator(s): SLI, SCB		Landform (h	illside. terrac	e, hummocks etc.): Drainage							
ocal relief (concave, convex, none): concave			.3 % / 20.0								
,	Lat										
Subregion : Interior Alaska Mountains											
oil Map Unit Name:			<u> </u>	NWI classification: Upland							
Are climatic/hydrologic conditions on the site typical Are Vegetation , Soil , or Hydrolog Are Vegetation , Soil , or Hydrolog , Soil , or Hydrolog	y	antly disturbed? ly problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ○ No ● Ided, explain any answers in Remarks.) Iormal Circumstances" present? Yes ○ No ● Ided, explain any answers in Remarks.)							
Hydrophytic Vegetation Present? Yes •											
Hydric Soil Present? Yes	No 💿	l:	s the Sam	pled Area							
Wetland Hydrology Present? Yes	No 💿	v	vithin a W	Wetland? Yes ○ No •							
Remarks: small stream nearby (SW15_T346_V01) with band of alders											
/EGETATION - Use scientific names of p	lants. List all s Absole % Co	ute Dominant		Dominance Test worksheet: Number of Dominant Species							
1.				That are OBL, FACW, or FAC:3 (A)							
2.				Total Number of Dominant Species Across All Strata: 4 (B)							
3.				Percent of dominant Species							
4.				That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.				Prevalence Index worksheet:							
То	tal Cover:	<u>n</u>		Total % Cover of: Multiply by:							
Sapling/Shrub Stratum 50% of Total Co	over:02	20% of Total Cove	er: <u>0</u>	OBL Species 0 x 1 = 0							
Salix pulchra	7	70	FACW	FACW Species 72 x 2 = 144							
2 Alpue viridie		15	FAC	FAC Species 35 x 3 = 105							
3 Potula glandulosa		5	FAC	FACU Species 14 x 4 = 56							
Spiraea stevenii		5	FACU	UPL Species 0 x 5 = 0							
5. Rosa acicularis		1	FACU	Column Totals: 121 (A) 305 (B)							
6.		0									
7.		0		Prevalence Index = B/A = 2.521							
8.		0		Hydrophytic Vegetation Indicators:							
9.		0		✓ Dominance Test is > 50%							
10.	(0		✓ Prevalence Index is ≤3.0							
To Herb Stratum 50% of Total C	er: <u>19.2</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)									
Calamagrostis canadensis	1	10	FAC	Problematic Hydrophytic Vegetation (Explain)							
2. Cornus suecica		5	FAC	¹ Indicators of hydric soil and wetland hydrology must							
Mertensia paniculata		5	FACU	be present, unless disturbed or problematic.							
Sanguisorba canadensis		2	FACW	Plot size (radius, or length x width)							
5. Chamaenerion angustifolium		2 📙	FACU	% Cover of Wetland Bryophytes							
6. Spinulum annotinum		1 📙	FACU	(Where applicable)							
7		0		% Bare Ground							
8		0		Total Cover of Bryophytes							
9.		0									
10		0		Hydrophytic Vegetation							
	tal Carra.			veceration							
То		<u>5</u> 20% of Total Cove	er: 5	Present? Yes • No •							

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SOIL Sampling Point: SW15_T346_02

Profile Descripti	ion: (Describe to	the depth ne	eded to docur	nent the indicator or co	nfirm the ab	sence of indic	ators)	-	10mii: 0W15_15-16_02		
Depth		Matrix			dox Featı			_			
(inches)	Color (me	oist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks		
0-16	7.5YR	3/2	50					Silt Loam			
16-18	2.5Y	4/2	100					Loam			
				-							
								-			
¹ Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox \	With 2.5Y I	Hue		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12	2)		_							
Alaska Gle	yed (A13)			³ One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)						•	COCIT			
Alaska Gle	eyed Pores (A1	.5)		⁴ Give details of o	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	? Yes ○ No •		
Depth (inch	nes):										
Remarks:											
cobbles through	hout profile. n	o hydric so	il indicators								
	•	,									
LIV/DD01-0	OV										
HYDROLO		ntorci						Casan da In dia	(h (h)		
Wetland Hyde Primary Indica			-)						rators (two or more are required) ned Leaves (B9)		
Surface W		is sufficient	L)	☐ Inundation V	/icible on A	orial Imagas	m. (D7)		atterns (B10)		
	er Table (A2)			Sparsely Veg		_			nizospheres along Living Roots (C3)		
Saturation				Marl Deposit		ilcave Sui iac	Le (B0)		f Reduced Iron (C4)		
Water Ma				Hydrogen Su	, ,	(C1)		Salt Deposi	` '		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
Drift Depo	. ,			Other (Expla		. ,			c Position (D2)		
	or Crust (B4)				III III Reille	ii koj		Shallow Aq			
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6))						FAC-neutra			
Field Observa		,									
Surface Water	r Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	Present?	Yes C	No •	Depth (inche).		Wetla	nd Hydrology Present	t? Yes O No 💿		
Saturation Pre					•						
(includes capi		Yes 🔾	No 💿	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no hydrology ir	ndicators, nea	rby stream	is incised an	d doesn't appear we	ell connecte	ed with this	floodplain				

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