WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Aug-15							
Applica	int/Owner: Alaska Energy Authority					Sampling Point: SW15_T349_03							
	gator(s): JGK	e, hummocks etc.): Bench											
Local relief (concave, convex, none): hummocky Slope: 17.6 % / 10.0 ° Elevation:													
	ion : Interior Alaska Mountains	La				Long.: Datum: WGS84							
_		Lo	_										
Soil Map Unit Name: NWI classification: PSS1B Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)													
	natic/hydrologic conditions on the site typical for this		•			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○							
	egetation , Soil , or Hydrology	-	-	disturbed?		omar or cametanece procent:							
Are V	egetation . , Soil . , or Hydrology	natura	lly pro	oblematic?	(If nee	ded, explain any answers in Remarks.)							
SUMN	MARY OF FINDINGS - Attach site map sh	owing	sam	pling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes No	0											
	Hydric Soil Present? Yes ● No			Is the Sampled Area									
	Wetland Hydrology Present? Yes No No No No No No No No No N			within a Wetland? Yes ● No ○									
Rema	, , , , , , , , , , , , , , , , , , ,												
Keille	irs.												
VEGE	ETATION - Use scientific names of plants.	Lict all	cno	cios in tha	alot								
VLGL	TATION - Ose scientific flames of plants.	LIST all	spe	cies iii tile	JIUL.	Description of the second of t							
_		Abso		Dominant		Dominance Test worksheet: Number of Dominant Species							
1.	e Stratum	_% Co	over	Species?	Status	That are OBL, FACW, or FAC: 4 (A)							
						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.	Tabel Co.		_			Prevalence Index worksheet:							
	Total Cov		0	-f.T-+-1.C		Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =							
1.	Betula nana		30	✓	FAC	FACW Species 15 x 2 = 30							
2.	Vaccinium uliginosum		25	✓	FAC	FAC Species <u>112</u> x 3 = <u>336</u>							
3.	Empetrum nigrum		15		FAC	FACU Species 2 x 4 = 8							
4.	Rhododendron tomentosum		12		FACW	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Vaccinium vitis-idaea		5		FAC	Column Totals: <u>129</u> (A) <u>374</u> (B)							
6.	Alnus viridis ssp. sinuata		3		FAC	Prevalence Index = B/A = 2.899							
	Picea glauca		2		FACU	Trevalence index = B/A =							
8.	Rhododendron groenlandicum		1		FAC	Hydrophytic Vegetation Indicators:							
9.	Picea mariana		1		FACW	✓ Dominance Test is > 50%							
10.			0		FAC	Prevalence Index is ≤3.0							
	Total Cov		94	(Morphological Adaptations (Provide supporting data in							
	b Stratum 50% of Total Cover:	47	20%			Remarks or on a separate sheet)							
	Carex bigelowii		20	✓	FAC	Problematic Hydrophytic Vegetation (Explain)							
	Equisetum arvense		12	✓	FAC	Indicators of hydric soil and wetland hydrology must							
3.	Petasites frigidus		2		FACW	be present, unless disturbed or problematic.							
	Bistorta plumosa		1		FACU	Plot size (radius, or length x width) 10m							
			0			% Cover of Wetland Bryophytes							
			0			(Where applicable)							
			0			% Bare Ground							
			0			Total Cover of Bryophytes							
			0										
10.			0			Hydrophytic							
	Total Cov	_	35	of Total C-···	_	Vegetation Present? Yes ● No ○							
	50% of Total Cover:	17.5	20%	от Total Cover:		rieselle les 🕓 NU 🗸							
Rem	arks: Wetland moss is Sphagnum.												

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SOIL Sampling Point: SW15_T349_03

	on: (Describe to	the depth ne	eded to docum	cument the indicator or confirm the absence of indicators) Redox Features										
Depth (inches)	Color (m	oist)	%	Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks				
0-3									Peat					
3-6								-	Mucky Peat					
6-8						-			Muck					
8-13	7.5YR	2.5/2	100						Silt Loam	High organic content.				
13-20	5Y	4/1	80	10YR	5/6	20%		PL	Sandy Clay	With coarse gravel.				
15 20		1/ 1		10110		2070				With course graves				
								-	-					
	-							-	-					
1Tumou C - Com														
	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix													
	Hydric Soil Indicators: Indicators for Problematic Hydric Soils. Alaska Gleved Without Hue 5Y or Redder													
	Histel (A1)				ska Color Cri ska Alpine sv		•		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder				
Histic Epip	Sulfide (A4)				ska Redox W	-	•		Other (Explain in Remark	(S)				
	Surface (A12	2)				2.5								
Alaska Gle	•	-/							mary indicator of wetland h	nydrology,				
✓ Alaska Red					appropriate	-	•	•	esent					
Alaska Gle	yed Pores (A1	.5)		4 Give	details of co	lor change	e in Remarl	(S						
Restrictive Laye	er (if present)	:												
Type: sand									Hydric Soil Present	? Yes ● No O				
Depth (inch	Depth (inches): 13													
HYDROLO	GY													
Wetland Hydr	rology Indic	ators:							Secondary Indi	cators (two or more are required)				
Primary Indicat	tors (any one	is sufficient)						Water Stai	ned Leaves (B9)				
Surface W	. ,				undation Vi									
								hizospheres along Living Roots (C3)						
Saturation		☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Odor (C1)					☐ Presence of Reduced Iron (C4)☐ Salt Deposits (C5)							
Water Mar	rks (B1) Deposits (B2)				ydrogen Suli ry-Season W					Stressed Plants (D1)				
Drift Depo		•			ther (Explair					ic Position (D2)				
	. ,				шег (Ехріан	i iii Keiiiai	KS)			` '				
☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3) ☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)														
	oil Cracks (B6)								al Test (D5)				
Field Observa	itions:													
Surface Water	Present?	Yes C	No 💿	De	epth (inches	s):								
Water Table P	resent?	Yes 💿	No 🔾	De	epth (inches	s): 17		Wetla	nd Hydrology Presen	it? Yes 💿 No 🔾				
Saturation Pre		Yes	No O	De	epth (inches	s): 5								
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:														
2555.55 .555.555 556 (Steelin gauge) monte. Helly senial priotosy previous inspection) in available.														
Remarks:														

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