WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	et/Site: Susitna-Watana Hydroelectric I	Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Aug-12			
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T53_03			
	igator(s): CTS, EKJ			Landform (hil	llside, terrac	ce, hummocks etc.): Toeslope			
	relief (concave, convex, none): convex	·		Slope:		\$ ° Elevation: 722			
	gion : Southcentral Alaska	`	Lat:	62.80798823		Long.: -149.056135723 Datum: NAD83			
			Lat	02.00790023	30				
	ap Unit Name:			- 1	<u> </u>	NWI classification: Upland			
	matic/hydrologic conditions on the site ty		•		● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
	√egetation		•	ly disturbed?		termar ou cametaneou procent.			
Are \	√egetation	ology \square	naturally p	roblematic?	(It nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach sit	e map sho	owing sar	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Ye	s • No	\supset						
		s O No	•	Is the Sampled Area					
	7	s O No		within a Wetland? Yes ○ No •					
Rem	arks: Sdet or maybe Slobe, but more eric								
/FGI	ETATION - Use scientific names of	of plants I	ict all co	ocias in tha	nlot				
	LIATION -OSE SCIENTING Harries (n piants. t	•			Dominance Test worksheet:			
Tre	ee Stratum		Absolute % Cover		Indicator Status	Number of Dominant Species			
1.	o Strutum		0			That are OBL, FACW, or FAC: 4 (A)			
2.						Total Number of Dominant Species Across All Strata: 5 (B)			
3.				·					
4.			0	. П		Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.						Possession of Today was also ask			
		Total Cove	r: <u>0</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	pling/Shrub Stratum 50% of To	tal Cover:	0 20%	6 of Total Cover	:0	OBL Species $0 \times 1 = 0$			
			40	✓	FAC	FACW Species 30.1 x 2 = 60.20			
1. 2.			_ 40	. 🔻	FAC FAC	FAC Species 84.1 x 3 = 252.3			
3.	Vaccinium vitis-idaea Rhododendron tomentosum		$-\frac{1}{30}$		FACW	FACU Species 5 x 4 = 20			
4.	Empetrum nigrum				FAC	UPL Species $0 \times 5 = 0$			
5.	Betula nana				FAC				
6.	Spiraea stevenii		1	· 🖺	FACU	Column Totals: <u>119.2</u> (A) <u>332.5</u> (B)			
7.	Opiraca steveriii		0	·	17100	Prevalence Index = B/A = 2.789			
8.			0			Hydrophytic Vegetation Indicators:			
9.						✓ Dominance Test is > 50%			
10.						✓ Prevalence Index is ≤3.0			
		Total Cove	r: 112			Morphological Adaptations (Provide supporting data in			
Hei	rb Stratum 50% of To			% of Total Cove	r: <u>22.4</u>	Remarks or on a separate sheet)			
1.	Cornus canadensis		4	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum sylvaticum			✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Carex bigelowii		0.1		FAC	be present, unless disturbed or problematic.			
4.	Rubus chamaemorus		0.1		FACW	Plot size (radius, or length x width) 10m			
5.	Calamagrostis canadensis		1		FAC	% Cover of Wetland Bryophytes 40			
6.						(Where applicable)			
7.						% Bare Ground			
8.			0			Total Cover of Bryophytes 40			
			0						
			0	. \square		Hydrophytic			
9.									
9.		Total Cove		6 of Total Cover	: 1.44	Vegetation Present? Yes No			

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SOIL Sampling Point: SW12_T53_03

Profile Descripti	on: (Describe to	the depth n	eeded to docu	ument the indicator or co	nfirm the al	sence of indic	ators)				
Depth		Matrix		Red	dox Feat						
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks		
0-2			100					Fibric Organics	some mineral 20 roots		
2-6	7.5YR	2.5/1	95					Loam	thin layer of 7.5YR 3/2		
6-9	2.5YR	2.5/2	100					Loamy Sand			
9-11	7.5YR	4/4	100					Loamy Sand			
11-19	7.5YR	2.5/2	90						angular fine to coarse gravel		
		<u> </u>									
-											
								-			
1Tunor C—Cor		Danlation	DM-Dodu	ced Matrix ² Location	. DI - Do	- Lining DC	-Doot Cha	nnal M-Matrix			
		-Depletion	. KM=Reuu	Indicators for Pr		_		Tillei. M=Mau ix			
Hydric Soil I						4	DIIS:	l Maria Clarad Medica da d	FV - Politi		
	Histel (A1)			Alaska Color Cl		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip	` ,			Alaska Redox V	•	•		Other (Explain in Remarks)			
	Sulfide (A4)			☐ Alaska Neuo∧ ¥	VIUI 2.Ji	пис	_	(2.p.a			
Alaska Gle	Surface (A12))						nary indicator of wetland h	nydrology,		
Alaska Red				and an appropriat	e landsca	pe position r	nust be pre	esent			
	yed Pores (A15	5)		⁴ Give details of co	olor chang	je in Remark	S				
Restrictive Laye	er (ir present):							Under Cail Descent	? Yes ○ No ●		
Type: Depth (inch	nec):							Hydric Soil Present	? Yes ∪ No ⊖		
	165).										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO											
Wetland Hydi									cators (two or more are required)		
Primary Indica		is sufficien	t)						ned Leaves (B9)		
Surface W	. ,			☐ Inundation V		-			Patterns (B10)		
	er Table (A2)			Sparsely Veg		ncave Surfac	e (B8)		hizospheres along Living Roots (C3)		
Saturation				Marl Deposits	` '				of Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)									ic Position (D2)		
☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3) ☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)											
									graphic Relief (D4) al Test (D5)		
	oil Cracks (B6)						1	☐ FAC-IIEuu	i Test (US)		
Field Observa		Vac (No ●	Danth (inche	-1.						
Surface Water				Depth (inche	•				· · ·		
Water Table P) No ●	Depth (inche	s):		Wetian	nd Hydrology Presen	it? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	es):						
Describe Recor	ded Data (stre	am gauge	, monitor w	ell, aerial photos, prev	vious insp	ection) if ava	ilable:				
Remarks:											
no wetland hyd	Irology indicato	ors									

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