WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T53_01		
	igator(s): CTS, EKJ	e, hummocks etc.): Swale					
	relief (concave, convex, none): concave		Slope:	% / 18.			
	gion : Southcentral Alaska	l at ·	 62.805588234		Long.: -149.057285725 Datum: NAD83		
		02.00330023					
	ap Unit Name:		0 V	Na ○	NWI classification: Upland		
	matic/hydrologic conditions on the site typical for this ti	-		No ○	(If no, explain in Remarks.)		
		,	/ disturbed?		omar on ounotanood procont.		
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ i	naturally pr	oblematic?	(If nee	eded, explain any answers in Remarks.)		
BUM	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No C)					
	Hydric Soil Present? Yes ○ No ●	Is	Is the Sampled Area				
	Wetland Hydrology Present? Yes No •	ithin a W	/etland? Yes ○ No ●				
Rem	arks: No GPS, not enough satellites for Trimble, alder of		le				
/EGI	ETATION - Use scientific names of plants. Li	st all spe	cies in the	•	Dominance Test worksheet:		
Tre	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)		
1.		0			Total Number of Dominant		
2.		0			Species Across All Strata:3(B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover		Total % Cover of: Multiply by:				
Sa	pling/Shrub Stratum 50% of Total Cover:	of Total Cover	0	OBL Species x 1 =			
1.	Alnus viridis	85	✓	FAC	FACW Species 3.1 x 2 = 6.2		
2.	Ribes triste	-10		FAC	FAC Species <u>130</u> x 3 = <u>390</u>		
3.	Linnaea borealis			FACU	FACU Species <u>26.1</u> x 4 = <u>104.4</u>		
4.					UPL Species0 x 5 =0		
5.					Column Totals: <u>159.2</u> (A) <u>500.6</u> (B)		
6.		•					
7.		0			Prevalence Index = B/A = 3.144		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.					Prevalence Index is ≤3.0		
He	Total Cover rb Stratum 50% of Total Cover:		of Total Cover	: 19.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Calamagrostis canadensis	_35_	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Dryopteris expansa	15	~	FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Chamaenerion angustifolium	5		FACU	be present, unless disturbed or problematic.		
4.	Equisetum pratense			FACW	Plot size (radius, or length x width)		
5.	Streptopus amplexifolius			FACU	% Cover of Wetland Bryophytes 0		
	Spinulum annotinum			FACU	(Where applicable)		
6.		1		FACU	% Bare Ground7		
7.	Cornus canadensis	^ -	1 1	FACW	Total Course of December to a		
7. 8.	Sanguisorba canadensis	0.1		FAC!!	Total Cover of Bryophytes		
7. 8. 9.		0.1		FACU			
7. 8.	Sanguisorba canadensis Trientalis europaea	0.1		FACU	Hydrophytic		
7. 8. 9.	Sanguisorba canadensis	0.1 0	of Total Cover				

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SOIL Sampling Point: SW12 T53 01

Profile Descripti	ion: (Describe to t	the depth ne	eded to doc	ument the indicator or co	nfirm the at	sence of indica	ators)					
Depth				Redox Features			_					
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-1			100					Fibric Organics	10% roots			
1-4			100					Hemic Organics	10% roots			
4-5			100					Sapric Organics	10% roots			
5-10	7.5YR	2.5/1	90					Sandy Loam	10% roots			
10-18	10YR	2/2	85					Sandy Loam	15% ang grvl and coarse sand			
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Redu	ced 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					
Histosol or	r Histel (A1)			Alaska Color Ch		-		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine s	•	,		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue	Ш	Other (Explain in Remark	(S)			
	Surface (A12)			3 One indicator of	hydronhy	tic vegetatio	n one nrim	nary indicator of wetland h	pydrology			
Alaska Gle				and an appropriat					iyarology,			
☐ Alaska Red	` '	->		4 Give details of co	olor chanc	e in Remark	s					
Alaska Gle	yed Pores (A15	•)										
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes O No 💿			
Depth (inch	nes):											
no hydric soil ir	ndicators											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one i	s sufficient	:)					Water Stained Leaves (B9)				
	Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				Patterns (B10)			
	er Table (A2)			Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					of Reduced Iron (C4)			
Water Ma				Hydrogen Sulfide Odor (C1)				☐ Salt Depos				
	Deposits (B2)			Dry-Season Water Table (C2)					Stressed Plants (D1)			
	Drift Deposits (B3) Other (Explain in Rema								ic Position (D2)			
	or Crust (B4)								quitard (D3)			
	Iron Deposits (B5)								graphic Relief (D4)			
Surface So	oil Cracks (B6)							☐ FAC-neutra	al Test (D5)			
Field Observa												
Surface Water	r Present?		No 💿	Depth (inche	s):							
Water Table P		Yes C	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes O No 💿			
Saturation Pre (includes capi		Yes O	No •	Depth (inche	s):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hydrology indicators												

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