WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	roelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-12
Applica	nt/Owner: Alaska Energy A	uthority			-	Sampling Point: SW12_T37_06
	gator(s): CTS, EKJ	duronty	l	_andform (hill	lside, terrac	e, hummocks etc.): Toeslope
	elief (concave, convex, none):	concave		Slope: 1.7		
	·	CONTOUTE				
	ion : Southcentral Alaska		Latc	32.812009909	92	Long.:149.556469965
Soil Ma	p Unit Name:					NWI classification: Upland
Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil egetation , Soil .	, or Hydrology	significantly	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Prese	ent? Yes No)			
	Hydric Soil Present?	Yes O No 🤄				pled Area
	Wetland Hydrology Present?	Yes O No 🤄		wi	ithin a W	etland? Yes ○ No ⊙
	arks: Fnwws at base of slope TATION -Use scientific		ist all spe	cies in the	plot.	
					p. 0 t.	Dominance Test worksheet:
Troc	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
	Picea glauca		15	<u>✓</u>	FACU	That are OBL, FACW, or FAC: (A)
2.	Betula neoalaskana		2		FACU	Total Number of Dominant
3.	Detaid Neodidokana		0		17100	Species Across All Strata:
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
5.			0			
		Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sanl	ling/Shrub Stratum			of Total Cover	: 3.4	001.0
-		_		_		
	Betula neoalaskana				FACU	FAC Species 28 x 2 = 56
	Spiraea stevenii		10		FACU	FAC Species
3.	Rosa acicularis			V	FACU	
4.	Ribes triste				FAC	UPL Species <u>0</u> x 5 = <u>0</u>
	Viburnum edule				FACU	Column Totals: <u>178</u> (A) <u>606</u> (B)
1	Salix barclayi		4		FAC	Prevalence Index = B/A = 3.404
7.	Dasiphora fruticosa				FAC	
	Vaccinium uliginosum				FAC	Hydrophytic Vegetation Indicators:
9.						Dominance Test is > 50%
10.		T.1.10.				Prevalence Index is ≤3.0
Herl	b Stratum	Total Cover 50% of Total Cover:		of Total Cover	r: <u>13.6</u>	 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum arvense		2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Sanguisorba canadensis		25	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Chamerion angustifolium		4		FACU	be present, unless disturbed or problematic.
4.	Mertensia paniculata		5		FACU	Plot size (radius, or length x width)
5.	Aconitum delphinifolium		5		FAC	
6.	Cornus canadensis		10		FACU	% Cover of Wetland Bryophytes 2 (Where applicable)
7.	Viola epipsila		3		FACW	% Bare Ground
8.	Streptopus amplexifolius		2		FACU	Total Cover of Bryophytes 2
9.	Spinulum annotinum		2		FACU	
10.	Calamagrostis canadensis		35	✓	FAC	Hydrophytic
		Total Cover				Vegetation Present? Yes ○ No ●
		50% of Total Cover:	46.5 20%	of Total Cover	18.6	Present? Yes ○ No ●
Rema	arks: Linbor, Rubarc, Rubpe	d, Aneric, Gymdry, Triet	ur = 0.1 cov	er, Thaspa, G	Gereri, Equsy	/l = 1

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SOIL Sampling Point: SW12_T37_06

	ion: (Describe to t	he depth ne	eded to docu	ment the indicator or cor	nfirm the abs	ence of indicat	tors)		
Depth		1atrix		Rec	lox Featur				
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1			100					Fibric Organics	_
1-4			85					Sapric Organics	15% roots
4-6	10YR	2/1	100					Silt Loam	few roots
6-12	2.5YR	3/4	100					Loam	few roots
12-14	10YR	2/1	100					Silt Loam	few roots
14-18	2.5Y	4/3	95					Sandy Loam	5% roots, coarse sand, gravel
									-
									
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Pore	Lining. RC=	Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblematic	Hydric Soi	ils: ³		
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA4	4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	ue		Other (Explain in Remar	ks)
Thick Darl	c Surface (A12)			3 One indicator of	hudronhuti	a vacatation		ann, indicator of watland	hudrologu.
Alaska Gle				and an appropriat				nary indicator of wetland lesent	nydrology,
Alaska Red	` ,			⁴ Give details of co	olor change	in Domarks			
☐ Alaska Gle	eyed Pores (A15	5)		Give details of ec	nor change	iii Keiliaiks			
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	t? Yes O No 🖲
Depth (incl	nes):								
Remarks:									
no hydric soil ir	ndicators								
HYDROLO	GY								
HYDROLO Wetland Hyd		tors:						Secondary Ind	icators (two or more are required)
Wetland Hyd			:)						icators (two or more are required) ined Leaves (B9)
Wetland Hyd Primary Indica	rology Indica		c)	☐ Inundation V	isible on Ae	rial Imagery	y (B7)	Water Sta	
Wetland Hyd Primary Indica Surface W	rology Indica stors (any one i		<u>.</u>)	☐ Inundation V				Water Sta	ined Leaves (B9)
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