WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T131_08
Investi	gator(s): SLI, SCB		Landform (hill	side, terrac	e, hummocks etc.): Hillside
-	elief (concave, convex, none): concave		Slope: 10.0		-
	ion : Interior Alaska Mountains	l at ·	 62.976358414	_ —	Long.: -148.248282552 Datum: WGS84
_			02.97 03304 1-	*	
	p Unit Name:		- \	<u> </u>	NWI classification: PSS1B
Are V Are V		significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Iorded, explain any answers in Remarks.) Iorded, explain features, etc.
	Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area
	Hydric Soil Present? Yes ● No				-
	Wetland Hydrology Present? Yes No	\supset	W	ithin a W	etiand? Tes © No C
	portion of wetland. small seeps and standing v	vater in willo	ows near R3U	BH.	plot. photo time 1510, #s 1469-71. plot in relatively dry
VEGE	TATION -Use scientific names of plants. L	ist all spe	cies in the	piot.	1
		Absolute	Dominant		Dominance Test worksheet:
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3(A)
1.					Total Number of Dominant
2.					Species Across All Strata:3 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	r: <u> </u>			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species <u>11.1</u> x 1 = <u>11.1</u>
1.	Salix pulchra	40	✓	FACW	FACW Species 40.1 x 2 = 80.2
	Vaccinium uliginosum	20	✓	FAC	FAC Species <u>26.1</u> x 3 = <u>78.30</u>
	Salix reticulata	· 1		FAC	FACU Species 0 x 4 = 0
	Empetrum nigrum			FAC	UPL Species 0 x 5 = 0
5.					Column Totals: 77.3 (A) 169.6 (B)
6.		_			Column Totals: <u>77.3</u> (A) <u>169.6</u> (B)
7.					Prevalence Index = B/A = 2.194
8.					Hydrophytic Vegetation Indicators:
					Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
10.	Total Cove				
Her	b Stratum 50% of Total Cover:		6 of Total Cover	12.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	10	~	OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Comarum palustre	1		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis	1		FAC	be present, unless disturbed or problematic.
4.	Equisetum arvense	1		FAC	Plot size (radius, or length x width)
5.	Viola epipsila	0.1		FACW	% Cover of Wetland Bryophytes
6.	Anemone richardsonii	0.1		FAC	(Where applicable)
7.	Epilobium palustre	0.1		OBL	% Bare Ground
8.	Cornus suecica	0.1		FAC	Total Cover of Bryophytes
9.	Sanguisorba officinalis	0.1		FACW	
10.		0			Hydrophytic
	Total Cover				Vegetation
	50% of Total Cover:	6.75 20%	of Total Cover	2.7	Present? Yes • No ·
10.	Total Cover	0 r: 13.5 6.75 20%	of Total Cover		

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SOIL Sampling Point: SW13_T131_08

Depth —								
(inches)	Color (moist)		Color (moist)	_%	Type ¹	<u>Loc_</u> 2	Texture	Remarks
0-5		100				FI	ibric Organics	
5-10		100				H	lemic Organics	
								-
	<u> </u>							
Type: C=Concent	tration. D=Depletion	on. RM=Reduced	Matrix ² Locatic	n: PL=Pore L	 _ining. RC=Ro	oot Channe	el. M=Matrix	-
Hydric Soil Indic	ators:		Indicators for P	roblematic H	lydric Soils:	3		
Histosol or Hist		ſ	Alaska Color C	4	. *		aska Gleyed Without Hu	ıe 5Y or Redder
✓ Histic Epipedor	` '	ſ	Alaska Alpine				nderlying Layer	20 5 1 01 1100001
Hydrogen Sulfi		ſ	Alaska Redox	With 2.5Y Hue	e	□ o	ther (Explain in Remark	s)
Thick Dark Sur	` '							
Alaska Gleyed	. ,						y indicator of wetland h	ydrology,
Alaska Redox (and an appropria	ite landscape	position must	t be presei	nt	
Alaska Gleyed	. ,		⁴ Give details of o	color change in	n Remarks			
estrictive Layer (if	present):							
Type: fur-						н	ydric Soil Present?	? Yes 💿 No 🔾
Type: frozen								
Depth (inches): emarks:	10							
Depth (inches):	10							
Depth (inches): emarks: YDROLOGY	·							
Depth (inches): emarks: YDROLOGY Vetland Hydrology	, gy Indicators:							cators (two or more are required)
Depth (inches): emarks: YDROLOGY Vetland Hydrology Indicators	, gy Indicators: (any one is sufficie	nt)					Water Stair	ned Leaves (B9)
Depth (inches): emarks: YDROLOGY /etland Hydrolog /rimary Indicators Surface Water	gy Indicators: (any one is sufficier (A1)	nt)		Visible on Aeri		37)	Water Stair Drainage P	ned Leaves (B9) atterns (B10)
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