WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 30-Jul-13		
ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T172_08		
		Landform (hillside, terrace, hummocks etc.): Hillside				
		Slope: 14.0 % / 8.0 ° Elevation: 886				
ion : Interior Alaska Mountains	Lat.:	63.277534485	 5	Long.: -148.255155921 Datum: WGS84		
		NWI classification: PSS1B				
-	me of vear	-2 Yes	● No ○	(If no, explain in Remarks.)		
	•			Iormal Circumstances" present? Yes ● No ○		
	-			eded, explain any answers in Remarks.)		
		npling point	locations	s, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes ● No C)	la.	tha Cam	wlad Avan		
Hydric Soil Present? Yes No)	Is the Sampled Area within a Wetland? Yes ○ No ●				
Wetland Hydrology Present? Yes O No •)	within a Wetland? Yes ○ No ●				
arks:						
ETATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
e Stratum			Status	Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)		
	0			That are OBL, FACW, or FAC: 7 (A) Total Number of Dominant		
	0			Species Across All Strata: 7 (B)		
	0			Percent of dominant Species		
	0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
	0			Prevalence Index worksheet:		
Total Cover:				Total % Cover of: Multiply by:		
ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>10</u> x 1 = <u>10</u>		
Salix pulchra	45	✓	FACW	FACW Species <u>50</u> x 2 = <u>100</u>		
Saliv harolavi	10		FAC	FAC Species <u>105</u> x 3 = <u>315</u>		
Salix ratioulata	30	✓	FAC	FACU Species 0 x 4 = 0		
	55	✓	FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
	0			Column Totals: <u>165</u> (A) <u>425</u> (B)		
	0					
	0			Prevalence Index = B/A = 2.576		
	0			Hydrophytic Vegetation Indicators:		
	0			Dominance Test is > 50%		
	0			✓ Prevalence Index is ≤3.0		
500/ ST . LO	20	Morphological Adaptations (Provide supporting data in				
		_		Remarks or on a separate sheet)		
				Problematic Hydrophytic Vegetation ¹ (Explain)		
Facilitation and and				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
0		▼		25 presently amess distarbed or problematic		
			FAC	Plot size (radius, or length x width)		
				% Cover of Wetland Bryophytes		
				(Where applicable) % Bare Ground		
				% Bare Ground Total Cover of Bryophytes		
				Total Cover of Dryophlytes		
	0			Hydronhytic		
Total Cover:				Hydrophytic Vegetation Present? Yes No		
	ant/Owner: Alaska Energy Authority igator(s): WAD, RWM relief (concave, convex, none): concave gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this til //egetation	ant/Owner: Alaska Energy Authority ligator(s): WAD, RWM relief (concave, convex, none): concave gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this time of year l/egetation	ant/Owner: Alaska Energy Authority igator(s): WAD, RWM relief (concave, convex, none): concave gion: Interior Alaska Mountains Lat: 63.277534488 ap Unit Name: matic/hydrologic conditions on the site typical for this time of year? Yes //egetation	ant/Owner: Alaska Energy Authority igator(s): WAD, RWM relief (concave, convex, none): concave Slope: 14.0 % / 8.6 Slope: 14.0		

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SOIL Sampling Point: SW13_T172_08

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features												
Depth (inches) Color (moist)			% Color		(moist) % Type 1		Loc ²	- Texture	Remarks			
0-6	COIOI (IIIOI	<u>stj</u>	100	Coloi (II	ioistj		туре	LUC	Fibric Organics			
6-20		3/1		7.5YR	4/4	20		PL	Sandy Loam			
				7.51K				PL	Sandy Loan			
					. ——							
								-	-			
						-						
¹Type: C=Cor	ncentration. D=	Depletion.							annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alas	ka Color Cha	ange (TA	4 4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,			Alas	ka Alpine sv	wales (TA	5)		Underlying Layer			
	Sulfide (A4)			Alas	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	s)		
	Surface (A12)	1										
Alaska Gle									nary indicator of wetland h	ydrology,		
✓ Alaska Red				ana an	appropriate	3 Ianascap	oe position n	nust be pre	esent			
	eyed Pores (A15	5)		4 Give o	details of col	lor change	e in Remark	S				
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):									· · · · · · · · · · · · · · · · · · ·		
Remarks:												
HYDROLO	GY											
Wetland Hydi		tors:							Secondary India	cators (two or more are required)		
_	itors (any one is									ned Leaves (B9)		
Surface W	/ater (A1)			In	undation Vis	sible on A	erial Imager	y (B7)	☐ Drainage P	atterns (B10)		
High Wate	er Table (A2)			☐ Sp	arsely Vege	etated Cor	ncave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	ı (A3)			`	arl Deposits			-	Presence o	f Reduced Iron (C4)		
☐ Water Mai	rks (B1)			□ Ну	drogen Sulf	fide Odor	(C1)		☐ Salt Depos	its (C5)		
Sediment	Deposits (B2)				y-Season W				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)				ther (Explain				Geomorphi	c Position (D2)		
Algal Mat	or Crust (B4)				• •		•		Shallow Aq	uitard (D3)		
☐ Iron Depo	osits (B5)								Microtopog	raphic Relief (D4)		
Surface So	oil Cracks (B6)								✓ FAC-neutra			
Field Observa	ations:											
Surface Water	r Present?	Yes 🔾	No 💿	D€	epth (inches	s):						
Water Table P	resent?	Yes 🔾	No 💿	De	epth (inches	د/،		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre						,						
(includes capil		Yes •	No ∪	De	epth (inches	s): 8						
Describe Record	ded Data (strea	am gauge, r	nonitor well,	, aerial p	hotos, previ	ious inspe	ction) if ava	ilable:				
Remarks:												

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