WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 31-Jul-13								
ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T154_08								
	ce, hummocks etc.): canyon											
· · · -		% / 1.2 ° Elevation: 115										
	Lat.:	63 24363604		Long.: -148.394438847 Datum: NAD83								
		NWI classification: PSS1B										
	mo of vo	or? Vec	. No ○									
				Iormal Circumstances" present? Yes No No								
	-	-		eded, explain any answers in Remarks.)								
•		mpling poin	t locations	s, transects, important features, etc.								
, , , ,		le	the Sam	unlad Araa								
,												
7 37		ļ.		ottaria i								
arks: Narrow canyon with narrow [4 ft] active channel	running t	through. Chanr	nel substrate	e consists of subangular cobbles up to 20 in diameter.								
TATION - Use scientific names of plants. Li	ist all sp	ecies in the	plot.									
•				Dominance Test worksheet:								
e Stratum			Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)								
	0			That are OBL, FACW, or FAC:3 (A) Total Number of Dominant								
	0			Species Across All Strata:3(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>24.1</u> x 1 = <u>24.1</u>								
Salix pulchra	35	✓	FACW	FACW Species <u>35</u> x 2 = <u>70</u>								
	0			FAC Species <u>11.1</u> x 3 = <u>33.30</u>								
	•			FACU Species <u>0</u> x 4 = <u>0</u>								
	0			UPL Species <u>0</u> x 5 = <u>0</u>								
	0	_		Column Totals: 70.2 (A) 127.4 (B)								
	0	_ 📙		Prevalence Index = B/A = 1.815								
	0	_		Trevalence index = D/A =								
	0	_		Hydrophytic Vegetation Indicators:								
				✓ Dominance Test is > 50%								
				✓ Prevalence Index is ≤3.0								
500/ (5 . 1.0	r: 7	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)										
O a service a UE a				Problematic Hydrophytic Vegetation ¹ (Explain)								
				Indicators of hydric soil and wetland hydrology must								
Dhadiala internifalia		- =		be present, unless disturbed or problematic.								
Company naturates		-	OBL									
Eriophorum angustifolium	-		OBL	Plot size (radius, or length x width) <u>10m</u>								
			FAC	% Cover of Wetland Bryophytes (Where applicable)								
	0			% Bare Ground								
				Total Cover of Bryophytes								
		_										
	0	_		Hydrophytic								
	0 : <u>35.2</u>			Hydrophytic Vegetation Present? Yes No								
	ant/Owner: Alaska Energy Authority gator(s): BAB relief (concave, convex, none): concave gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this ti //egetation	ant/Owner: Alaska Energy Authority gator(s): BAB relief (concave, convex, none): concave gion: Interior Alaska Mountains	ant/Owner: Alaska Energy Authority gator(s): BAB	ant/Owner: Alaska Energy Authority gator(s): BAB								

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SOIL Sampling Point: SW13_T154_08

		the depth ne	eded to docume	nt the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8			100					Fibric Organics			
8-19	10YR	3/2	100					Sandy Loam	ang gravel and cobbles		
		<u> </u>			_						
					_						
¹Type: C=Cor	ncentration. D	=Depletion.		Matrix ² Locatio		_		nnel. M=Matrix			
Hydric Soil I	ndicators:		1	Indicators for P	roblematio	Hydric So	oils: ³				
Histosol o	r Histel (A1)			Alaska Color C	hange (TA4	1)4		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	pedon (A2)		[Alaska Alpine s	swales (TAS	5)		Underlying Layer			
✓ Hydrogen	Sulfide (A4)		[Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	rs)		
☐ Thick Dark	k Surface (A12)		30							
Alaska Gle	eyed (A13)			and an appropria				nary indicator of wetland h esent	ydrology,		
Alaska Red	dox (A14)					•	·				
Alaska Gle	eyed Pores (A1	5)		⁴ Give details of o	olor change	e in Remark	is .				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	itors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient)					Water Stair	ned Leaves (B9)		
Surface W	Vater (A1)			☐ Inundation \	isible on A	erial Image	ry (B7)	Drainage P	atterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation	. ,			Marl Deposit	` ,			_	f Reduced Iron (C4)		
☐ Water Ma				✓ Hydrogen Su				Salt Depos			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
☐ Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								uitard (D3)		
☐ Iron Depo	` ,								raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	il Test (D5)		
Field Observa Surface Water		Voc C	No •	Donth (in ch	-a\.						
				Depth (inche	es):						
Water Table F		Yes 🕓	No O	Depth (inche	es): 7		Wetiai	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capi		Yes 💿	No O	Depth (inche	es): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Down day											
Remarks:	procent just of	f plot ac cm	all D2 stroam	9 inches denth							
Surface water present just off plot as small R2 stream, 8 inches depth.											

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