WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13							
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T107_10									
Investig	ator(s): SLI, SCB	e, hummocks etc.): Hillside										
Local re	elief (concave, convex, none): tussocks		Slope:	% / 4.7	7 ° Elevation: 712							
Subreg	ion : Interior Alaska Mountains	Lat.:	62.856995582	 28	Long.: -148.139501214 Datum: NAD83							
_	o Unit Name:		NWI classification: PSS1/4B									
	natic/hydrologic conditions on the site typical for this	time of ver	ar? Yes	● No ○	(If no, explain in Remarks.)							
	egetation . Soil . , or Hydrology .	-	itly disturbed?		Iormal Circumstances" present? Yes No							
	egetation , Soil , or Hydrology	•	problematic?		eded, explain any answers in Remarks.)							
SUMN	IARY OF FINDINGS - Attach site map sh		mpling point	locations	s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No State Sampled Area												
	Hydric Soil Present? Yes No			within a Wetland? Yes No								
	Wetland Hydrology Present? Yes No	0	W	itiiiii a vv	etialia: 100 s No s							
Rema	rks:											
VEGE	TATION -Use scientific names of plants.	List all sp	ecies in the	plot.								
		Absolut			Dominance Test worksheet:							
	Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)							
	Picea mariana		_ =	FACW	Total Number of Dominant							
2. 3.			-		Species Across All Strata:5(B)							
4.		$- \frac{0}{0}$	- =		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)							
5.		$ \frac{0}{0}$	-									
	Total Cov		_		Prevalence Index worksheet: Total % Cover of: Multiply by:							
Sapl	ing/Shrub Stratum 50% of Total Cover:		— % of Total Cover	: 5	0.00							
					OBL Species 0 x1 = 0 FACW Species 53 x2 = 106							
	Vaccinium uliginosum Picea mariana			FACW	FAC Species 47 x 3 = 141							
	Potula nana		-	FAC	FACU Species 0.1 x 4 = 0.400							
	Vaccinium vitis idaoa			FAC	UPL Species 0 x 5 = 0							
	Rhododendron tomentosum			FACW	Column Totals: 100.1 (A) 247.4 (B							
6.	Empetrum nigrum			FAC								
7.	Spiraea stevenii	0.1		FACU	Prevalence Index = B/A = 2.472							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0	_ 📙		✓ Dominance Test is > 50%							
10.		0	_		✓ Prevalence Index is ≤3.0							
	Total Cov			12.02	Morphological Adaptations ¹ (Provide supporting data in							
_	Stratum 50% of Total Cover:		_		Remarks or on a separate sheet)							
	Rubus chamaemorus			FACW	Problematic Hydrophytic Vegetation (Explain)							
	Carex bigelowii Equisetum sylvaticum			FAC FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
-		-	_ 📙	IAC								
					Plot size (radius, or length x width) <u>10m</u>							
					% Cover of Wetland Bryophytes (Where applicable)							
					% Bare Ground							
					Total Cover of Bryophytes 70							
		0			Hydrophytic							
	Total Cov		Vegetation									
	50% of Total Cover:	7.5 20	% of Total Cover	:3	Present? Yes ● No ○							
Rema	arks:											

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SOIL Sampling Point: SW13_T107_10

Profile Description	on: (Describe to t	the denth nec	aded to docume	ant the indi	icator or con	firm the ah	cance of indic	entore)	• -	10mii: 54715_1167_10		
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Redox Features												
Depth (inches)	Color (mo		%	Color (me		%	Type ¹	Loc ²	Texture	Remarks		
0-1		<u></u>	~		oise,		1792		Fibric Organic			
1-7									Hemic Organic			
7-8									Sapric Organic	w charcoal		
	100/			10\/D	416							
8-10	10Y	4/1	60	10YR	4/6	40	C	PL_	Clay Loam	w few subang fine gravels		
	-											
¹Type: C=Con	ncentration. D=	Depletion.	RM=Reduced	l Matrix	² Location:	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil In	ndicators:			_ Indicato	ors for Pro	blematic	c Hydric So	oils: ³				
Histosol or	Histel (A1)		[a Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	. ,		[Alask	a Alpine sv	vales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)		[Alask	a Redox W	/ith 2.5Y F	lue	L	Other (Explain in Remark	rs)		
Thick Dark	Surface (A12)			2 0 : - t-		· · · · · · · · · · · · · · · · · · ·			to the second second less and the			
Alaska Gle	yed (A13)						tic vegetatio pe position r		mary indicator of wetland h esent	lydrology,		
✓ Alaska Red	, ,					•	•	•				
Alaska Gle	yed Pores (A15	i)		4 Give u	etails or co	lor change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type: clay	loam								Hydric Soil Present	? Yes 💿 No 🔾		
Depth (inch	nes): 8											
Remarks:												
HYDROLO	^V			-								
Wetland Hydr		tors							Secondary India	cators (two or more are required)		
Primary Indicat			ı							ned Leaves (B9)		
Surface W		J 501110.0,		☐ Inu	indation Vi	cible on A	erial Image	rv (R7)				
✓ High Wate	, ,						_			hizospheres along Living Roots (C3)		
Saturation (A3)				☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)						of Reduced Iron (C4)		
Water Mai		Hydrogen Sulfide Odor (C1)					Salt Depos	` ,				
	Deposits (B2)				/-Season W					Stressed Plants (D1)		
Drift Depo	. ,				ner (Explain					ic Position (D2)		
	or Crust (B4)				ic. (,		110,		✓ Shallow Aq	` '		
☐ Iron Depo										graphic Relief (D4)		
Surface So	oil Cracks (B6)								✓ FAC-neutra			
Field Observa	itions:											
Surface Water	Present?	Yes 🔾	No 💿	Der	pth (inches	s):						
Water Table P	resent?	Yes 💿	No \bigcirc	De	pth (inches	s): 8		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre	esent?	Yes •			. `	•			•			
(includes capil		Yes 😊	NO U	Del	pth (inches	5): 6						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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