WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/Ci	ty: Matanusl	ka-Susitna Borough Sampling Da	te: 25-Jun-12					
Applica	nt/Owner: Alaska Energy Authority				Sampling Point:	SW12_T28_10					
Investig	pator(s): JGK	ce, hummocks etc.): Undulating									
Local re	elief (concave, convex, none): undulating		Slope:	% / 3.4	4 ° Elevation: 717						
Subreg	ion : Interior Alaska Mountains	Lat.:	62.873638	 31227	 Long.: -148.36957567	Datum: NAD83					
_	p Unit Name:		02.0.000	, . <u> </u>	NWI classification: PF						
	natic/hydrologic conditions on the site typical for this	time of ve	ar?	res No		040					
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No											
	egetation . Soil . or Hydrology .	•	problematic		eded, explain any answers in Remar						
		-		·							
SUMIN	MARY OF FINDINGS - Attach site map sho		ampling po	oint locations	s, transects, important feature	es, etc.					
Hydrophytic Vegetation Present? Yes No Signature No Signa											
	Hydric Soil Present? Yes No			within a Wetland? Yes No							
	Wetland Hydrology Present? Yes No)		within a wetland?							
Rema	rks:										
VEGE	TATION -Use scientific names of plants. L	ist all s _l	pecies in t	he plot.	1						
		Absolut			Dominance Test worksheet: Number of Dominant Species						
	Stratum Picea mariana	<u>% Cove</u>			That are OBL, FACW, or FAC:	4(A)					
2.			_ =	FACV	Total Number of Dominant						
3.			_		Species Across All Strata:	4 (B)					
4.		0	_ =		Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)					
5.			_ =								
	Total Cove	r: <u>35</u>	_		Prevalence Index worksheet: Total % Cover of: Mult	iply by:					
Sapl	ing/Shrub Stratum 50% of Total Cover:	over:		1 = 0							
1.	Vaccinium uliginosum	15	5 V	FAC		2 = 160					
	Phododendron tomentosum			FACW		3 =87					
	Betula glandulosa			FAC	FACU Species 3 x 4	4 = 12					
	Vaccinium vitis-idaea	-		FAC	UPL Species 0 x	5 = 0					
5.	Picea mariana			FACW	Column Totals:112 (A) 259 (B)					
6.	Rhododendron groenlandicum	2		FAC	Prevalence Index = B/A =	,					
7.	Spiraea stevenii	2		FACU	Prevalence index = B/A =	2.313					
8.	Empetrum nigrum	2	_	FAC	Hydrophytic Vegetation Indicators	6:					
	Spiraea stevenii	1	_	FACU	✓ Dominance Test is > 50%						
10.		0			✓ Prevalence Index is ≤3.0						
Horl	Total Cove Stratum_ 50% of Total Cover: _			over: 9.4	Morphological Adaptations (Pro- Remarks or on a separate sheet)	vide supporting data in					
	D. b. a channel	20			Problematic Hydrophytic Vegetati	on ¹ (Explain)					
	Rubus chamaemorus			IACVV	¹ Indicators of hydric soil and wetland						
					be present, unless disturbed or proble						
					District Conflict Conflict						
					Plot size (radius, or length x width) % Cover of Wetland Bryophytes	_10m					
					(Where applicable)	_10					
					% Bare Ground	2					
			_		Total Cover of Bryophytes	70					
			_								
10.		0			Hydrophytic						
	Total Cover		_	wor: C	Vegetation Present? Yes ● No	0					
	50% of Total Cover:				l .						
Rema	picmar trees are clustered on the 1.5 - 2.0 m present.	high mou	ınds that occ	cur throughout	the habitat typepockets of sphagni	um bog/ponds also are					

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SOIL Sampling Point: SW12_T28_10

Profile Descript		he depth neede latrix	d to document	the indicator or co	nfirm the abs		cators)					
Depth (inches)							. 2	Texture	Remarks			
(inches)	Color (mois			olor (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2					
0-10			80					Fibric Organics	20% roots			
10-11			.00					Hemic Organics				
11-14			90					Hemic Organics	10% charcoal			
¹Type: C=Co	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:		In	dicators for Pr	oblematic	Hydric S	oils: ³					
	r Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Underlying Layer								
✓ Histic Epip	. ,			Alaska Alpine s								
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y H	lue		Other (Explain in Remarks)				
	k Surface (A12)											
	eyed (A13)			One indicator of nd an appropriat				nary indicator of wetland h	ydrology,			
Alaska Re					·	•	•	eseni				
	eyed Pores (A15))	4	Give details of co	olor change	e in Remarl	ks					
Restrictive Laye	er (if present):											
Type: ice								Hydric Soil Present	? Yes • No O			
Depth (incl	nes): 11											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary India	cators (two or more are required)			
Primary Indica	ators (any one is	sufficient)						Water Stained Leaves (B9)				
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)				
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Depos	its (C5)			
_				Dry-Season \					Stressed Plants (D1)			
Drift Depo			L	Other (Explai	in in Remar	rks)			ic Position (D2)			
	or Crust (B4)							✓ Shallow Aq	' '			
Iron Depo	. ,								graphic Relief (D4)			
☐ Surface S	ioil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)			
Field Observa		\bigcirc										
Surface Wate	r Present?	Yes O		Depth (inche	:s):							
Water Table F	Present?	Yes 💿	No 🔾	Depth (inche	es): 3		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾			
Saturation Pre (includes capi		Yes I	No O	Depth (inche	es): 1							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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