WETLAND DETERMINATION DATA FORM - Alaska Region

t/Site: Susitna-Watana Hydroelectric Project		Borough/Cit	y: Matanus	ka-Susitna Borough Sampling Date: 18-Jun-12			
ant/Owner: Alaska Energy Authority		Sampling Point: SW12_T08_02					
relief (concave, convex, none): flat		Slope:	% / 2.	8 ° Elevation: 405			
zion: Southcentral Alaska	Lat.:	- 62 767878	1931	Long.: -148.827235755 Datum: NAD83			
		02.707070	1001	NWI classification: Upland			
-	mo of voc		es 🕟 No C				
	•			Normal Circumstances" present? Yes No No			
	Ū	•		eded, explain any answers in Remarks.)			
			·	•			
MARY OF FINDINGS - Attach site map show	wing sa	mpling po	int location	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes O No 🖲	unio di Anno						
Hydric Soil Present? Yes O No •)						
Wetland Hydrology Present? Yes O No •)		within a Wetland? Yes ○ No ●				
arks:							
TATION - Use scientific names of plants. Li	ist all sp	ecies in th	he plot.				
•				Dominance Test worksheet:			
e Stratum				Number of Dominant Species			
Picea glauca	_ 20	✓	FACU	That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant			
Populus balsamifera	15	~	FACU	Species Across All Strata: 6 (B)			
	0			Percent of dominant Species			
	0			That Are OBL, FACW, or FAC: 50.0% (A/B)			
	0	_		Prevalence Index worksheet:			
				Total % Cover of: Multiply by:			
oling/Shrub Stratum 50% of Total Cover:	17.5 20	% of Total Co	ver:	OBL Species0 x 1 =0			
Viburnum edule	15	✓	FACU	FACW Species 2 x 2 = 4			
Alnus incana	15		FAC	FAC Species <u>26</u> x 3 = <u>78</u>			
Pose esigniaria			FACU	FACU Species 63 x 4 = 252			
Vaccinium vitis-idaea	1		FAC	UPL Species0 x 5 =0			
Linnaea borealis	_ 1	_	FACU	Column Totals:91 (A)334 (B)			
	0	_ 🖳					
	0	_ 📙		Prevalence Index = B/A =3.670			
	0	_		Hydrophytic Vegetation Indicators:			
		- =		Dominance Test is > 50%			
		_		Prevalence Index is ≤3.0			
500/ CT . LO			over: 7/	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
				Problematic Hydrophytic Vegetation ¹ (Explain)			
Mada de la lata		- 🖳		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Distantiana		-	-				
Balakisi walio wa		- <u> </u>	-	Plot size (radius, or length x width) <u>10m</u>			
Hadra and a plaint and	- 1		FACU	% Cover of Wetland Bryophytes (Where applicable)			
Casasular Buidons	- 1		FACU	% Bare Ground			
Orthilia socunda	1		FACU	Total Cover of Bryophytes 90			
Chamaenerion angustifolium	1		FACU	<u>30</u>			
Artemisia tilesii	1		FACU	Hydrophytic			
Total Covers		Vegetation					
50% of Total Cover:	9.5 20	% of Total Co	ver: <u>3.8</u>	Present? Yes No •			
narks: calcan is unknown grass, no seed heads.							
	ant/Owner: Alaska Energy Authority gator(s): JGK relief (concave, convex, none): flat gion: Southcentral Alaska ap Unit Name: matic/hydrologic conditions on the site typical for this ti //egetation	ant/Owner: Alaska Energy Authority gator(s): JCK relief (concave, convex, none): flat gion: Southcentral Alaska	ant/Owner: Alaska Energy Authority gator(s): JGK	ant/Owner: Alaska Energy Authority gator(s): JGK			

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SOIL Sampling Point: SW12_T08_02

Profile Descript	ion: (Describe to	the depth n	eeded to doc	ument the inc	dicator or conf	firm the ab	sence of indic	ators)				
Depth		Matrix				ox Featu			_			
(inches)	Color (mo	oist)	%	Color (m	noist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks		
0-3			100						Fibric Organics			
3-5									Hemic Organics			
5-10	10YR	3/4	75	7.5YR	3/4	20	С	PL	Loamy Sand	Oxidized streaks and inclusions		
10-18	2.5Y	2.5/1	97	2.5Y	3/2	3	C	PL	Loamy Sand	band of oxidized inclusions, organic fragme		
¹ Type: C=Cor	ncentration. D	=Depletion	n. RM=Redu						annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alas	ka Color Cha	ange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y I	Hue		Other (Explain in Remarl	ks)		
Thick Dark	c Surface (A12)		3 Ono is	adicator of h	n (droph)	tic voqotatio	n one prir	mary indicator of wetland h	ovdrology		
Alaska Gle	eyed (A13)						ne position r			iyarology,		
Alaska Red	` '			4 Give	details of sol	lor chang	e in Remark	· ·				
☐ Alaska Gle	eyed Pores (A1	5)		Give	ictalis of col	ioi chang	e iii Keiliai k					
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes O No 🖲		
Depth (inch	nes):											
Remarks:												
HYDROLO	GV											
Wetland Hyd		tors:							Secondary Indi	cators (two or more are required)		
Primary Indica			nt)						Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
	Vater (A1)	.o oarricieri	,	☐ In	undation Vis	sible on A	erial Image	rv (B7)				
	er Table (A2)						-		I			
	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Saturation (A3) ☐ Marl Deposits (B15)							CC (DO)		of Reduced Iron (C4)		
Water Ma	. ,				drogen Sulf	` '	(C1)		☐ Salt Depos	` '		
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo	osits (B3)				her (Explain		. ,			ic Position (D2)		
	or Crust (B4)				(,			quitard (D3)		
☐ Iron Depo										graphic Relief (D4)		
	oil Cracks (B6)									al Test (D5)		
Field Observa	ations:											
Surface Water	r Present?	Yes) No ●	De	epth (inches	s):						
Water Table F	Present?	Yes	No ●	De	epth (inches	:):		Wetla	nd Hydrology Presen	it? Yes ○ No •		
Saturation Pre	esent?	Vac (No ●			•						
(includes capi	llary fringe)	res	NOG	De	epth (inches	5):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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