WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Da	ate: 05-Aug-12					
Applica	ant/Owner: Alaska Energy Authority				Sampling Point:	SW12_T35_09					
	gator(s): CTS. EKJ	e, hummocks etc.): Flat									
	elief (concave, convex, none): flat		Slope:	%/ 3.1	° Elevation: 992						
Subrea	ion : Interior Alaska Mountains	Lat i	62.893968172		Long.: -148.659725653	Datum: NAD83					
-	p Unit Name:		02.000000112	.0	NWI classification: PE						
	natic/hydrologic conditions on the site typical for this	a tima of yoor		• No ()	(If no, explain in Remarks.)						
	egetation , Soil , or Hydrology	-	/ disturbed?			Yes 🕘 No 🔿					
	egetation □ , Soil □ , or Hydrology □	naturally pr			eded, explain any answers in Remai						
						,					
SUMN	MARY OF FINDINGS - Attach site map sh	nowing sam	pling point	locations	s, transects, important featur	es, etc.					
Hydrophytic Vegetation Present? Yes 🔍 No 🔾											
	Hydric Soil Present? Yes 🔍 No	\bigcirc	Is the Sampled Area within a Wetland? Yes Ves Ves								
	Wetland Hydrology Present? Yes	\bigcirc	wi	thin a W	etland? Yes S No C						
	arks: subarctic lowland wet sedge meadow borderin	g on wet sedg	je willow tund	ra, shrubs a	almost entirely on scattered hummo	ocks = Whimbrel					
	breeding habitat										
VEGE	TATION - Use scientific names of plants.	List all spe	cies in the	plot.							
		Absolute	Dominant		Dominance Test worksheet:						
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species	- (1)					
1.		0			That are OBL, FACW, or FAC:	<u>5</u> (A)					
2.		0			Total Number of Dominant Species Across All Strata:	5 (B)					
3.		0			Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC:	(A/B)					
5.		0			Prevalence Index worksheet:						
	Total Cov	/er:				tiply by:					
Sap	ling/Shrub Stratum 50% of Total Cover:	20%	of Total Cover:	0	OBL Species67 x	1 =67					
1.	Vaccinium uliginosum	3	\checkmark	FAC	FACW Species 6 x	2 = 12					
2.	Vaccinium vitis-idaea	2		FAC	FAC Species 10 x	3 = 30					
3.	Rhododendron tomentosum	3	\checkmark	FACW	FACU Species 2 x	4 = 8					
4.	Spiraea stevenii	2		FACU	UPL Species x	5 =					
5.	Empetrum nigrum	4	\checkmark	FAC	Column Totals: 85 (A	A) 117 (B)					
6.	Salix fuscescens	2		FACW		,					
7.	Andromeda polifolia (IAM)	2		OBL	Prevalence Index = B/A =	1.376					
8.		0			Hydrophytic Vegetation Indicator	'S:					
9.		0			Dominance Test is > 50%						
10.		0			✓ Prevalence Index is \leq 3.0						
Har	Total Cov b Stratum 50% of Total Cover:		of Total Cover	: 3.6	Morphological Adaptations ¹ (Pro Remarks or on a separate sheet)	ovide supporting data in					
	bollatam	30		 OBL	Problematic Hydrophytic Vegetal						
	Trichophorum alpinum		\checkmark	OBL							
2.	Carex aquatilis Carex rariflora			OBL	¹ Indicators of hydric soil and wetland be present, unless disturbed or proble						
3. 4.	Bhadiala integrifalia	1		FAC							
4. 5.	Quartia narannia			FACW	Plot size (radius, or length x width)	_10m					
6.	Eriophorum angustifolium			OBL	% Cover of Wetland Bryophytes (Where applicable)	30					
-	Comarum palustre	1		OBL	% Bare Ground	2					
					Total Cover of Bryophytes	<u>3</u> 30					
					. otal cover of pryophyteo	<u> </u>					
		0			Hydrophytic						
	Total Cov	ver: 67			Vegetation	\sim					
	50% of Total Cover:	33.5 20%	of Total Cover:	13.4	Present? Yes • No						
Rem	arks:										

	escription: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features				ators)						
Depth (inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
0-5			80					Fibric Organics	20% roots		
5-16			80					Hemic Organics	20% roots		
	· ·										
-						_			_		
				,		-					
¹ Type: C=Con	centration D=[)enletion	RM=Reduce	ed Matrix ² Location	PI = Por	e Linina RC	=Root Cha	nnel M=Matrix			
		Jepiedon.		Indicators for Pr							
Hydric Soil Ir						4	·IIS:				
	Image: Mistor Mistel (A1) Image: Mistor Alpha Alaska Color Change (TA4) Image: Mistor Alpha Alaska Alpine Swales (TA5) Image: Mistor Alaska Alpine Swales (TA5)							Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epipe				Alaska Alpine s				Other (Explain in Rema	rks)		
	Sulfide (A4)				VIUI 2.51 F	lue					
	Surface (A12)			³ One indicator of	hydrophvl	ic vegetatio	n, one prin	nary indicator of wetland	hydrology,		
Alaska Gley				and an appropriat					,		
Alaska Red	. ,			⁴ Give details of co	olor chang	e in Remark	5				
	/ed Pores (A15)										
Restrictive Laye	r (if present):								·• · · · ·		
Type:).							Hydric Soil Presen	it? Yes 🖲 No 🔾		
Depth (inch	es):										
Remarks:											
HYDROLO	GY										
Wetland Hydr	ology Indicat	ors:						Secondary In	dicators (two or more are required)		
Primary Indicat	ors (any one is	sufficient)						Water St	ained Leaves (B9)		
🖌 Surface W	ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	Drainage	Patterns (B10)		
🖌 High Wate	r Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	e (B8)	Oxidized	Rhizospheres along Living Roots (C3)		
✓ Saturation	(A3)			Marl Deposits	s (B15)			Presence	of Reduced Iron (C4)		
🗌 Water Mar	ks (B1)			Hydrogen Su		(C1)		Salt Dep	osits (C5)		
Sediment	Deposits (B2)			Dry-Season V	Vater Tabl	e (C2)		Stunted of	or Stressed Plants (D1)		
🗌 Drift Depo	sits (B3)			🗌 Other (Explai	n in Rema	rks)		Geomorp	hic Position (D2)		
Algal Mat	or Crust (B4)							Shallow /	Aquitard (D3)		
Iron Depo	sits (B5)							Microtop	ographic Relief (D4)		
Surface Sc	oil Cracks (B6)							🖌 FAC-neut	ral Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes 🖲	No 〇	Depth (inche	s): 1						
Water Table P	resent?	Yes 🖲	No \bigcirc	Depth (inche	s): 4		Wetla	nd Hydrology Prese	nt? Yes $ullet$ No $igodom$		
Saturation Pre (includes capil		Yes 🖲	No \bigcirc	Depth (inche	s): 0						
Describe Record	led Data (strear	m gauge, i	nonitor we	ll, aerial photos, prev	vious inspe	ection) if ava	ilable:				
Remarks:	water										
Patchy surface	waler										