WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Jun-12						
Applicar	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T25_01						
investigator(s): JGK Landform (hillside, terrace, hummocks etc.): Hillside											
Local re	lief (concave, convex, none): concave		Slope:	% / 2.9							
Subreai	on : Southcentral Alaska	Lat.:	62.803998270		Long.: -149.278345726 Datum: NAD83						
_	Unit Name:		02.00000027		NWI classification: Upland						
	atic/hydrologic conditions on the site typical for this	time of voc	ro Voc	● No ○	(If no, explain in Remarks.)						
Are Ve	getation , Soil , or Hydrology getation , Soil , or Hydrology ARY OF FINDINGS - Attach site map she	significant	tly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)						
	Hydrophytic Vegetation Present? Yes No	$\overline{\mathcal{O}}$									
	Hydric Soil Present? Yes No		Is the Sampled Area								
	Wetland Hydrology Present? Yes No		wi	ithin a W	etland? Yes O No 🗨						
Remai											
	TATION - Use scientific names of plants. Stratum	List all sp Absolute Cove	Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)						
-	Picea glauca	10	_	FACU	Total Number of Dominant						
-	Betula neoalaskana	_ 2	- 📙	FACU	Species Across All Strata:6(B)						
3.			-		Percent of dominant Species						
4.			-		That Are OBL, FACW, or FAC: 66.7% (A/B)						
5.	Tatal Carr	0	- 📙		Prevalence Index worksheet:						
Cami	Total Cover: 50% of Total Cover:		- % of Total Cover:	2.4	Total % Cover of: Multiply by:						
Sapii	ng/Shrub Stratum 50% of Total Cover:	6207		2.4	OBL Species 0 x1 = 0						
-	Betula glandulosa		_	FAC	FAC Species 0 x 2 = 0						
-	Vaccinium uliginosum		_	FAC	FAC Species 72 x 3 = 216 FACU Species 17 x 4 = 68						
_	Empetrum nigrum		_	FAC							
_	Rhododendron groenlandicum	_	-	FAC							
5.		•	-		Column Totals: <u>89</u> (A) <u>284</u> (B)						
6. ₋			-		Prevalence Index = B/A =3.191_						
8.			- П		Hydrophytic Vegetation Indicators:						
_					Dominance Test is > 50%						
					☐ Prevalence Index is ≤3.0						
	Total Cover Stratum 50% of Total Cover:		= _ % of Total Cover	: 14	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)						
	Calamagrostis canadensis	2	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
-	Cornus canadensis		- ✓	FACU	¹ Indicators of hydric soil and wetland hydrology must						
3.					be present, unless disturbed or problematic.						
					Plot size (radius, or length x width) 10m						
			_		Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 0						
6		0	_ 📙		(Where applicable)						
			-		% Bare Ground						
			-		Total Cover of Bryophytes						
			-								
10.	Tatal Caus		- ⊔		Hydrophytic						
	Total Cove 50% of Total Cover:	-	_	. 11	Vegetation Present? Yes No						

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T25_01

Profile Descripti	ion: (Describe to	the depth no	eeded to docu	ment the ind		firm the abs		cators)				
Depth (inches)	Depth ————————————————————————————————————			Color (moist)				Loc ²	_ Texture	Remarks		
0-3	COIOI (IIIO	SLJ		COIOI (III	DISLJ	70	Туре	LUC	Fibric Organics			
3-4		4/2	80						Sandy Loam	20% roots		
									·	20% 1000		
4-7	10YR	2/1	100						Sandy Loam			
7-13	10YR	3/6							Sandy Loam			
13-19	10YR	3/2	60	7.5YR	5/3	40	C	M	Sandy Clay			
								-				
¹Type: C=Cor	ncentration. D=	:Depletion	. RM=Reduc						annel. M=Matrix			
Hydric Soil I	ndicators:			Indicato	ors for Pro	blematio	Hydric S	oils: ³				
Histosol or	r Histel (A1)				a Color Ch				Alaska Gleyed Without Hi	ue 5Y or Redder		
Histic Epip	edon (A2)				Alaska Alpine swales (TA5)				Underlying Layer			
	Sulfide (A4)			L Alask	a Redox W	ith 2.5Y F	lue		Other (Explain in Remark	s)		
	Surface (A12)	'		3 ∩ne in	dicator of h	hvdronhvt	ic vegetatio	one nrir	mary indicator of wetland h	vdrology		
Alaska Gle				and an	appropriate	: landscap	e position i	must be pro	esent	ydrology,		
Alaska Red		_		4 Give d	etails of co	lor change	e in Remark	(S				
☐ Alaska Gle	yed Pores (A15	i)		- GIVE U		ior change	e iii Keinari					
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:							Secondary India	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficien	<u>t)</u>						Water Stained Leaves (B9)			
Surface W	/ater (A1)			Inu	Inundation Visible on Aerial Imagery (B7)				_	atterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits (B15)						f Reduced Iron (C4)		
Water Ma					drogen Sulf				Salt Depos			
	Deposits (B2)				/-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Oth	ner (Explain	ı in Rema	rks)			ic Position (D2)		
☐ Algai Mat	or Crust (B4)									uitard (D3)		
	oil Cracks (B6)								FAC-neutra	raphic Relief (D4)		
Field Observa									FAC-Heutra	Trest (D3)		
Surface Water		Yes C	No ●	De	pth (inches	:).						
			No •			•		Wotla	nd Hydrology Presen	t? Yes ○ No •		
Water Table P		_	_	De	pth (inches	,):		Wetia	na nyarology riesen	tr res - No -		
Saturation Pre (includes capi		Yes 🤇	No 💿	De	pth (inches	;):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

U.S. Army Corps of Engineers Alaska Version 2.0