WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13									
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T105_06									
Investig	jator(s): JER		Landform (hill	side, terrac	e, hummocks etc.): Footslope									
Local r	elief (concave, convex, none): undulating		Slope:	%/ 4.1										
	ion : Interior Alaska Mountains	l ət ·			Long.: -147.928976656 Datum: NAD83									
-		21												
	p Unit Name:				NWI classification: PSS1B									
Are V Are V	egetation, Soil, or Hydrology IARY OF FINDINGS - Attach site map show	significantly naturally pr wing sam	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.									
	Hydrophytic Vegetation Present? Yes No													
	Hydric Soil Present? Yes ● No C)												
	Wetland Hydrology Present? Yes No C)	W	ithin a W	etland? Yes \bigcirc No \bigcirc									
Remarks: no good landform choice, gentle slope above swale independent any hillside , fnows, trees patchy														
	TATION - Use scientific names of plants. Li	st all spe Absolute % Cover	ecies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species									
	• Stratum Picea glauca	25	-	FACU	That are OBL, FACW, or FAC:5_ (A)									
2.				TACO	Total Number of Dominant									
2. 3.		0			Species Across All Strata:6 (B)									
3. 4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)									
4. 5.		0			(AB)									
5.	Total Cover:	0			Prevalence Index worksheet:									
Com			of Total Cover:	-	Total % Cover of: Multiply by:									
sap	ling/Shrub Stratum 50% of Total Cover:	<u>12.5</u> 20%		<u>5</u>	OBL Species $0 \times 1 = 0$									
1.	Alnus viridis	60	\checkmark	FAC	FACW Species <u>10</u> $x 2 = 20$									
2.	Betula glandulosa	10		FAC	FAC Species <u>139</u> x 3 = <u>417</u>									
3.	Ribes triste	3		FAC	FACU Species <u>32</u> x 4 = <u>128</u>									
4.	Vaccinium uliginosum	20		FAC	UPL Species x 5 =									
5.	Vaccinium vitis-idaea	15		FAC	Column Totals: <u>181</u> (A) <u>565</u> (B)									
6.	Rhododendron groenlandicum	5		FAC	Prevalence Index = B/A =									
7.	Salix pulchra	5		FACW										
8.	Empetrum nigrum	20		FAC	Hydrophytic Vegetation Indicators:									
9.	Salix arbusculoides	2		FACW	✓ Dominance Test is > 50%									
10.	Spiraea stevenii	5		FACU	Prevalence Index is ≤3.0									
Her	Total Cover: <u>50% of Total Cover:</u>		6 of Total Cover	: 29	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)									
1.	Calamagrostis canadensis	2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)									
2.	Equisetum sylvaticum	1		FAC	¹ Indicators of hydric soil and wetland hydrology must									
3.	Petasites frigidus	2	\checkmark	FACW	be present, unless disturbed or problematic.									
4.	Equisetum arvense	3	\checkmark	FAC	Plot size (radius, or length x width) 10m									
5.	Orthilia secunda	2		FACU	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes									
6.		0			(Where applicable)									
7.					% Bare Ground _1									
					Total Cover of Bryophytes70									
10.		0			Hydrophytic									
Total Cover: <u>11</u> Vegetation														
	50% of Total Cover:	5.5 20%	of Total Cover:	2.2	Present? Yes No									
Remarks: Additional shrubs 1% picgla, 2% rosaci. hylspl 25, plesch 5, pticri 5, neparc 1, spphag 5, large areas of litter under alder 20%														

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features											
(inches) Color (moist)		oist)	%	Color (moist)		% Type ¹		Loc ²	Texture	Remarks	
0-3		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100	Color (III	0150)		1700	LUC	Fibric Organics	Fibric Organics	
3-6	2.5Y	4/1	70	10YR	4/4	30	C	PL	Silt Loam	high organic content	
6-8	10YR	3/2	100						Silt Loam	high organic content	
		5/2									
8-9			100						Fibric Organics	Fibric Organics	
9-10	10YR	3/2	100						Silt Loam	high organic content	
¹ Type: C=Co	ncentration. D	=Depletion.	RM=Redu				-		nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicate	ors for Pro	oblematio	Hydric S	oils: ³			
Histosol o	r Histel (A1)			Alask	a Color Ch	ange (TA4	ł) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)				a Alpine sv				Underlying Layer		
Hydrogen	Sulfide (A4)			🖌 Alask	a Redox W	/ith 2.5Y H	lue		Other (Explain in Remarl	<s)< td=""></s)<>	
	k Surface (A12)		3 One in	dicator of I	hydrophyt	ic venetatio	on one prim	nary indicator of wetland h	vdrology	
	eyed (A13)			and an	appropriate	e landscap	e position	must be pre	esent	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Alaska Re		E)		4 Give d	etails of co	lor change	e in Remarl	ks			
	eyed Pores (A1	-									
Restrictive Lay											
Type: ice									Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inches): 9											
HYDROLOGY											
Wetland Hyd		tors:							_Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one	is sufficient)							ned Leaves (B9)	
Surface V	Vater (A1)			🗌 Inu	Indation Vi	sible on A	erial Image	ery (B7)	Drainage F	Patterns (B10)	
	er Table (A2)			Spa	arsely Vege	tated Con	icave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation	. ,				rl Deposits	• •				of Reduced Iron (C4)	
Water Ma					drogen Sul				Salt Depos		
Drift Dep	Deposits (B2)				-Season W		• •		_	Stressed Plants (D1) ic Position (D2)	
	or Crust (B4)				ner (Explair	i in Remai	rks)		Shallow Ac	. ,	
										graphic Relief (D4)	
	ioil Cracks (B6)									al Test (D5)	
Field Observa											
Surface Wate	r Present?	Yes $\mathbb C$	No 🖲	De	pth (inches	5):					
Water Table F	Present?	Yes 🖲	No O	De	pth (inches	s): 9		Wetlar	nd Hydrology Presen	it? Yes 🖲 No 🔾	
Saturation Pre (includes capi		Yes 🖲	No \bigcirc		pth (inches	,					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
watertable is fi	rozen										