

			- Alaska Region								
Project/Site: Susitna-Watana Hydroelectric Project	Borough	City: Matanus	ka-Susitna Borough Sampling Date: 25-Aug-15								
Applicant/Owner: Alaska Energy Authority			Sampling Point: SW15_T318_03								
Investigator(s): AFW			ce, hummocks etc.): Mountainslope								
Local relief (concave, convex, none): convex	Slope:	% /13.	0 ° Elevation:								
Subregion : Cook Inlet Mountains	Lat.:		Long.: Datum: WGS84								
Soil Map Unit Name: NWI classification: Upland											
Are Vegetation , Soil , or Hydrology natu	ificantly disturt urally problema	tic? (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.											
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●	Is the Sampled Area within a Wetland? Yes \bigcirc No $oldsymbol{igodol}$										
Remarks:											
VEGETATION - Use scientific names of plants. List all species in the plot.											
Ab	solute Domi	nant Indicator	Dominance Test worksheet:								
	Cover Spec	ies? Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)								
1			Total Number of Dominant								
2			Species Across All Strata:4_ (B)								
3		L	Percent of dominant Species								
4.			That Are OBL, FACW, or FAC:								
5.			Prevalence Index worksheet:								
Sapling /Shrub Stratum 50% of Total Cover: 0		Covor:	Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover: 0	20% of Total		OBL Species <u>0</u> x 1 = <u>0</u>								
1. Betula nana		FAC FAC	FACW Species $1 \times 2 = 2$								
2. Vaccinium uliginosum		FAC FAC	FAC Species $62 \times 3 = 186$								
3. Empetrum nigrum	12	FAC	FACU Species <u>6</u> $x 4 = 24$								
4. Picea glauca	3	FACU	UPL Species <u>0</u> x 5 = <u>0</u>								
5. Vaccinium vitis-idaea	3	FAC	Column Totals: <u>69</u> (A) <u>212</u> (B)								
6. Salix pulchra	1	FACW	Prevalence Index = B/A =								
7	0										
8	0		Hydrophytic Vegetation Indicators:								
9	0	<u> </u>	✓ Dominance Test is > 50%								
	 64		Prevalence Index is ≤3.0								
Herb Stratum Total Cover:	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)										
1. Cornus canadensis		FACU	Problematic Hydrophytic Vegetation (Explain)								
2. Carex bigelowii	2	FAC	¹ Indicators of hydric soil and wetland hydrology must								
3	0	L	be present, unless disturbed or problematic.								
4	0		Plot size (radius, or length x width)								
5	0	└────	% Cover of Wetland Bryophytes								
6	0		(Where applicable)								

0
0
0

0

___5

50% of Total Cover: <u>2.5</u> 20% of Total Cover:

Total Cover:

1

% Bare Ground

Hydrophytic Vegetation Present?

Total Cover of Bryophytes

7. _____

8.

9. _

Remarks:

10.

60

40

Yes 💿 No 🔾

Profile Description: (Describe to the depth needed to docume Matrix					nent the indicator or confirm the absence of indicators) Redox Features						
(inches) Color (moist)		ist)	%	Color (moist)		<u>%</u> Type ¹ L		Loc ²	Texture	Remarks	
0-2			100						Hemic Organics		
2-16	7.5YR	2.5/2	50						Silty Clay		
+mottle	7.5YR	2.5/3	50						Sandy Loam		
		2.3/3									
									·		
¹ Type: C=Co	ncentration. D=	Depletion.	RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. R	C=Root Cha	nnel. M=Matrix	-	
Hydric Soil	Indicators:			Indicato	ors for Pro	oblematic	Hydric S	oils: ³			
Histosol o	or Histel (A1)				a Color Ch		4		Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epipedon (A2)					Alaska Alpine swales (TA5)				Underlying Layer		
Hydroger	Sulfide (A4)			🗌 Alask	a Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	s)	
Thick Dar	k Surface (A12)										
🗌 Alaska Gl	eyed (A13)							on, one prin must be pre	nary indicator of wetland h	ydrology,	
🗌 Alaska Re	edox (A14)					-		-			
🗌 Alaska Gl	eyed Pores (A15	5)		⁴ Give d	etails of co	lor change	e in Remar	ks			
Restrictive Lay	ver (if present):										
Type:									Hydric Soil Present	Yes 🔾 No 🖲	
Depth (inc	:hes):										
Remarks:											
	rizons with high	organic co	ntent and s	emiangula	r cobbles.	cryoturbat	ed? No hy	dric soil indi	icators.		
	5	5		5		,	,				
HYDROLO	DGY										
Wetland Hyd	Irology Indica	tors:							Secondary Indic	ators (two or more are required)	
Primary Indic	ators (any one i	s sufficient)							Water Stair	ned Leaves (B9)	
Surface V	Water (A1)			🗌 Inu	Indation Vi	sible on Ae	erial Image	ery (B7)	Drainage P	atterns (B10)	
	ter Table (A2)			Spa	arsely Vege	etated Con	cave Surfa	ace (B8)		nizospheres along Living Roots (C3)	
Saturatio	. ,				rl Deposits	. ,				f Reduced Iron (C4)	
Water Ma					drogen Sul				Salt Deposi		
	t Deposits (B2)			<i>'</i>	/-Season W		. ,		_	Stressed Plants (D1)	
	osits (B3)			∐ Oth	ner (Explair	n in Remar	·ks)			c Position (D2)	
Iron Dep	Mat or Crust (B4) Shallow Aquitard (D3) Deposits (B5) Microtopographic Relief (D4)										
· - ·	Soil Cracks (B6)								FAC-neutra		
Field Observ											
Surface Wate			No 🖲	De	pth (inches	z)•					
Water Table		_	No 🖲					Wetla	nd Hydrology Present	t? Yes 🔿 No 🖲	
Saturation Pr				De	pth (inches	5):		WELIA	na nyarology riesell		
(includes cap		Yes 🔾	No 🖲	De	pth (inches	5):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
sous moist, bu	t not saturated.	no wetland	a nydrology	indicators	•						