	WETLAND DE	TERMIN	ATION DAT	TA FORM	- Alaska Region									
Project/Si	te: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-1	2								
Applicant/	Owner: Alaska Energy Authority				Sampling Point: SW12_T54_0	02								
Investigat			Landform (hill	dform (hillside, terrace, hummocks etc.): Swale										
Local relie	ef (concave, convex, none): concave		Slope:	%/ 6.8	B									
	Southcentral Alaska	lat f	62.829958254		Long.: -149.155769043 Datum: NAD	83								
-	Jnit Name:		52.02000204		NWI classification: Upland									
	5		Noo Yee	• No ()	· ·									
	Are climatic/hydrologic conditions on the site typical for this time of year? Yes ● No ○ (If no, explain in Remarks.) Are Vegetation □ , Soil □ , or Hydrology □ significantly disturbed? Are "Normal Circumstances" present? Yes ● No ○													
SUMMA	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.													
Hydrophytic Vegetation Present? Yes  No O														
-	dric Soil Present? Yes ◯ No ●		ls	the Sam	pled Area									
	etland Hydrology Present? Yes  No		wi	'etland? Yes 🔾 No 🖲										
		ill bounded	d by steep roc	k faces, 15	-20ft tall.									
Remarks: lower in drainage than SW12_T54_01. drainage still bounded by steep rock faces, 15-20ft tall.														
VEOET														
VEGET	ATION - Use scientific names of plants. Lis	st all spe	cies in the	plot.	Deminence Test werksheet									
		Absolute		Indicator	Dominance Test worksheet: Number of Dominant Species									
1.	tratum	<u>% Cover</u> 0	Species?	Status		(A)								
					Total Number of Dominant									
2.		0			Species Across All Strata:3_ (	(B)								
3		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (	(A/B)								
4. 5.		0				(A/D)								
J	Total Cover:	0			Prevalence Index worksheet:									
Caulin		 00	of Total Cover:	0	Total % Cover of: Multiply by:									
Sapling	g/Shrub Stratum 50% of Total Cover:	0 20/0		0	OBL Species 0 x 1 = 0									
1. <u>A</u>	nus viridis	50		FAC	FACW Species $24$ x 2 = $48$									
2. <u>S</u>	alix pulchra	20		FACW	FAC Species $106 \times 3 = 318$									
3. <u>S</u>	piraea stevenii	5		FACU	FACU Species $23$ x 4 = $92$									
	alix barclayi	10		FAC	UPL Species <u>10</u> x 5 = <u>50</u>									
5.		0			Column Totals: <u>163</u> (A) <u>508</u>	(B)								
6		0			Prevalence Index = B/A = 3.117									
7		0												
8		0			Hydrophytic Vegetation Indicators:									
9					Dominance Test is > 50%									
10		<u>0</u> 85			Prevalence Index is ≤3.0									
U.s. h	Total Cover: tratum 50% of Total Cover: 4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)												
			of Total Cover											
	eratrum viride	5		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)									
	alamagrostis canadensis	40		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.									
	quisetum sylvaticum			FAC										
	treptopus amplexifolius	- <u>2</u> 10		FACU	Plot size (radius, or length x width) <u>10m</u>	_								
	hegopteris connectilis ryopteris expansa			FACU	% Cover of Wetland Bryophytes									
	iola selkirkii	10		UPL	(Where applicable)									
· · · ·					% Bare Ground 50									

2 FACW Sanguisorba canadensis 10. Hydrophytic Vegetation **Total Cover:** 78 Yes 💿 No 🔾 Present? 50% of Total Cover: <u>39</u> 20% of Total Cover: 15.6 Remarks: all shrubs heavily browsed by insects. viosel based on lvs - pubescent above w deep sinus. salbar w rose galls. trace polacu, acodel, rubarc,

3 2

corcan, petfri, chaang

FACU

FACW

% Bare Ground

Total Cover of Bryophytes

8. Spinulum annotinum

9. Senecio triangularis

50

40

Profile Description: (D		he depth nee <b>latrix</b>	ded to docu	ment the ind		firm the abs <b>ox Featu</b>		ators)				
Depth (inches)	Color (moi	st)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-3					0.01)		.,,,,		Fibric Organics			
3-5									Hemic Organics			
5-16	10YR	3/3	90	7.5YR	3/4	10	C	PL	Silt Loam			
									·			
<sup>1</sup> Type: C=Concentr	ration. D=	Depletion, I	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PI =Pore	e Linina, RC	=Root Cha	annel. M=Matrix			
		Depiction					-					
Hydric Soil Indica	ators:						c Hydric So	oils:	-			
Histosol or Histel (A1)			Alaska Color Change (TA4)				L	Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
Histic Epipedon (A2)					a Alpine sw			Г				
Hydrogen Sulfic				L Alask	a Redox W	11th 2.5Y F	lue		Other (Explain in Remark	5)		
Thick Dark Surf	. ,			<sup>3</sup> One in	dicator of l	hvdrophyt	ic vegetation	n, one prir	mary indicator of wetland h	vdrology.		
	Alaska Gleyed (A13) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present											
Alaska Redox (A	,	_		4 Give d	etails of co	lor change	e in Remark	5				
Alaska Gleyed P	Pores (A15	)		Give a		ion enunge		5				
Restrictive Layer (if	present):											
Type:									Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inches):												
Remarks:												
no hydric soil indicat	ors											
HYDROLOGY												
Wetland Hydrolog	-									cators (two or more are required)		
Primary Indicators (		s sufficient)							Water Stained Leaves (B9)			
Surface Water	• •			Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)			
✓ High Water Tab	• •			Sparsely Vegetated Concave Surface (B8)				e (B8)	Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4)			
Water Marks (E				Hydrogen Sulfide Odor (C1)					Salt Deposits (C5)			
Sediment Depo	Dry-Season Water Table (C2)					Stunted or Stressed Plants (D1)						
					Other (Explain in Remarks)				_	Geomorphic Position (D2) Shallow Aquitard (D3)		
Algal Mat or Cr							( )					
Iron Deposits (										raphic Relief (D4)		
Surface Soil Cra	. ,								FAC-neutra	l Test (D5)		
Field Observation		Vec O		-		`						
Surface Water Pres		Yes O	-		pth (inches	,						
Water Table Preser Saturation Present?		Yes 💿		De	pth (inches	s): 11		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$		
(includes capillary f	Yes 🖲	De	pth (inches	s): 0								

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

heavy rain over the past few days - sat and water tbl recorded may in fact be from precip, not ground water. Difficult to tell if running in from top or bottom of pit.