## WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project		Borough/City	: Denali Bo	orough Sampling Date: 06-A	Aug-12		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_1	Γ04_01		
	gator(s): CTS, EKJ	nillside, terrac	ide, terrace, hummocks etc.): Knob					
	relief (concave, convex, none): convex		-	ope: 8.7 % / 5.0 ° Elevation: 915				
	gion : Interior Alaska Mountains	l at ·	- · <u></u> 63.4623599		Long.: -148.644799969 Datum:	WGS84		
	ap Unit Name:	Lutii	03.4023333	NWI classification: Upland				
	·		o Vo	es   No				
	matic/hydrologic conditions on the site typical for this ti /egetation $\square$ , Soil $\square$ , or Hydrology $\square$ :	•	tly disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present?  Yes ● N	lo O		
		-	oroblematic?		eded, explain any answers in Remarks.)	.0		
				•				
SUMI	MARY OF FINDINGS - Attach site map show	wing sar	mpling poi	nt locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No C				all all A and			
	Hydric Soil Present? Yes No •	)		Is the Sampled Area within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes O No 🗨		'	within a Wetland? Yes ○ No ●				
Rem	narks: Top of terminal moraine, Sdet only b/c there ar	e vegetati	ed micro-swa	ales otherwise	e Rny			
	Top of terminal moralite, Sact only by there are	c vegetat	cu micro swe	iics, outici wis	с Бру			
VEG	<b>ETATION -</b> Use scientific names of plants. Li	ist all sp	ecies in th	e plot.				
		Absolute	e Dominan	t Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cove			Number of Dominant Species That are OBL, FACW, or FAC: 3	(A)		
1.		0			That are OBL, FACW, or FAC: 3  Total Number of Dominant	(A)		
2.		0			Species Across All Strata: 5	(B)		
3.		0			Percent of dominant Species			
4.		0	_		That Are OBL, FACW, or FAC: 60.0%	(A/B)		
5.		0	_		Prevalence Index worksheet:			
	Total Cover		_		Total % Cover of: Multiply by:			
Car	oling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cov	er: 0	OBL Species 0 x 1 = 0	_		
Sal					OBL Species x 1 =(	<u>)                                    </u>		
	Salix arctica	10	<b>✓</b>	FACU		<u>6</u>		
		10			FACW Species 8 x 2 = 1 FAC Species 41 x 3 = 12	6		
1.	Salix arctica			FACU	FACW Species 8 x 2 = 1  FAC Species 41 x 3 = 12  FACU Species 21 x 4 = 8	6 23 4		
1.	Salix arctica Arctostaphylos alpina	6		FACU	FACW Species 8 x 2 = 1  FAC Species 41 x 3 = 12  FACU Species 21 x 4 = 8	6 23		
1. 2. 3.	Salix arctica Arctostaphylos alpina Vaccinium uliginosum	6 20 10 8		FACU FAC FAC FAC	FACW Species 8 x 2 = 1  FAC Species 41 x 3 = 12  FACU Species 21 x 4 = 8	6 23 4 5.5		
1. 2. 3. 4.	Salix arctica Arctostaphylos alpina Vaccinium uliginosum Betula nana	6 20 10 8 8		FACU FAC FAC FAC FACW	FACW Species       8       x 2 =       1         FAC Species       41       x 3 =       1;         FACU Species       21       x 4 =       8         UPL Species       5.1       x 5 =       25         Column Totals:       75.1       (A)       24	6 23 4 5.5		
1. 2. 3. 4. 5.	Salix arctica Arctostaphylos alpina Vaccinium uliginosum Betula nana Ledum decumbens	6 20 10 8		FACU FAC FAC FAC FACW FAC FACU	FACW Species       8       x 2 =       1         FAC Species       41       x 3 =       12         FACU Species       21       x 4 =       8         UPL Species       5.1       x 5 =       25	6 23 4 5.5		
1. 2. 3. 4. 5. 6. 7. 8.	Salix arctica Arctostaphylos alpina Vaccinium uliginosum Betula nana Ledum decumbens Vaccinium vitis-idaea Loiseleuria procumbens Dryas octopetala	6 20 10 8 8		FACU FAC FAC FAC FACW FAC FACU UPL	FACW Species 8	6 23 4 5.5		
1. 2. 3. 4. 5. 6. 7. 8. 9.	Salix arctica Arctostaphylos alpina Vaccinium uliginosum Betula nana Ledum decumbens Vaccinium vitis-idaea Loiseleuria procumbens Dryas octopetala Diapensia lapponica	6 20 10 8 8 3 4		FACU FAC FAC FAC FACW FAC FACU UPL	FACW Species 8 x 2 = 1  FAC Species 41 x 3 = 12  FACU Species 21 x 4 = 8  UPL Species 5.1 x 5 = 25  Column Totals: 75.1 (A) 24  Prevalence Index = B/A = 3.309  Hydrophytic Vegetation Indicators:  Dominance Test is > 50%	6 23 4 5.5		
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Salix arctica Arctostaphylos alpina Vaccinium uliginosum Betula nana Ledum decumbens Vaccinium vitis-idaea Loiseleuria procumbens Dryas octopetala Diapensia lapponica Empetrum nigrum Total Cover	6 20 10 8 8 3 4 1 2		FACU FAC FAC FAC FACU FAC UPL UPL FAC	FACW Species 8 x 2 = 1  FAC Species 41 x 3 = 12  FACU Species 21 x 4 = 8  UPL Species 5.1 x 5 = 25  Column Totals: 75.1 (A) 24  Prevalence Index = B/A = 3.309  Hydrophytic Vegetation Indicators:  Dominance Test is > 50%	6 23 4 5.5 8.5 (B)		
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Hel	Salix arctica Arctostaphylos alpina Vaccinium uliginosum Betula nana Ledum decumbens Vaccinium vitis-idaea Loiseleuria procumbens Dryas octopetala Diapensia lapponica Empetrum nigrum  Total Cover: 50% of Total Cover: Carex microchaeta Anthoxanthum monticola ssp. alpinum	6 20 10 8 8 8 3 4 1 2 72 36 20	of Total Cov	FACU FAC FAC FACW FAC FACU UPL UPL FAC FAC	FACW Species $8 \times 2 = 1$ FAC Species $41 \times 3 = 12$ FACU Species $21 \times 4 = 8$ UPL Species $5.1 \times 5 = 25$ Column Totals: $75.1 \times 5 = 25$ Column Totals: $75.1 \times 5 = 25$ Prevalence Index = B/A = $3.309$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\le 3.0$ Morphological Adaptations $^1$ (Provide supporting Remarks or on a separate sheet)	6 23 4 5.5 (B)		
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SOIL Sampling Point: SW12\_T04\_01

Profile Descripti			eded to docu	ment the indicator or cor			cators)			
Depth (inches)		Matrix ·			dox Featu		. 2	- Texture	Pomarke	
(inches)	Color (mo	ist)	<u>%</u> _	Color (moist)	<u>%</u>	Type <sup>1</sup>	<u>Loc</u> <sup>2</sup>	Fibric Organics	Remarks	
0-1	10/0				-					
1-2		3/2	95					Sandy Loam	5% roots	
2-8	2.5Y	3/2	100					Sandy Loam	few roots	
8-12	10YR	2/2	100					Sandy Loam	little black concretions	
12-18	10YR	3/2	90					Sandy Loam	10% ang to semiround grvl	
							-			
Type: C=Cor	ncentration. D=	:Depletion	. RM=Reduc	ced Matrix <sup>2</sup> Location	ı: PL=Por	– ——— e Lining. RC	C=Root Cha	annel. M=Matrix	-	
Hydric Soil I	ndicators:	_	_	Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>			
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	` '			Alaska Alpine s	wales (TA!	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	rs)	
Thick Dark	Surface (A12)			20 1011000						
Alaska Gle				<sup>3</sup> One indicator of and an appropriat	hydropnyt e landscar	tic vegetation r	on, one prin must be pre	mary indicator of wetland hesent	nydrology,	
Alaska Red	dox (A14)						•	COCITE		
	eyed Pores (A15	i)		<sup>4</sup> Give details of co	olor chang	e in Kemark	(S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes):									
HYDROLO	GY									
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	tors (any one i	s sufficient	<u>:)</u>					Water Stai	ned Leaves (B9)	
Surface W	/ater (A1)			Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)		
High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)			
	Saturation (A3)			Marl Deposits (B15)				Presence of Reduced Iron (C4)  Salt Deposits (C5)		
Water Marks (B1)				Hydrogen Sulfide Odor (C1)						
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)	
Drift Depo				Uther (Explai	n in Rema	rks)			ic Position (D2)	
☐ Algai Mat	or Crust (B4)								quitard (D3)	
	oil Cracks (B6)							_	graphic Relief (D4) al Test (D5)	
Field Observa								TAC-fleutio	ii lest (D3)	
Surface Water		Yes C	No •	Depth (inche	ic).					
			No •	, ,	•		Wotla	nd Hydrology Presen	t? Yes O No •	
Water Table P		_	_	Depth (inche	s):		Wella	na nyaivivyy riesen	ICF TES CONTROL	
Saturation Pre (includes capi		Yes C	No 💿	Depth (inche	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
No wetland hyd	drology indicate	ors								
ino modana ny	arology marcace									

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