WETLAND DETERMINATION DATA FORM - Alaska Region

oject/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date:21-Jun-1	12	
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T33_	01	
vestigator(s): SLI, EKJ	L	Landform (hil	lside, terrac	e, hummocks etc.): Ridgetop		
ocal relief (concave, convex, none): concave		Slope: 17.6	3 % / 10.0	_ • •		
bregion : Interior Alaska Mountains	lat: 6	· 62.780889908		Long.: -148.358339972 Datum: WGS	 S84	
		02.700009900				
il Map Unit Name:			● No ○	NWI classification: Upland		
	ignificantly aturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) transects important features etc.)	
		pinig point	locations	, transects, important reatures, etc.		
, , , , , , , , , , , , , , , , , , ,	Is	s the Sampled Area				
Hydric Soil Present? Yes ○ No ●		within a Wetland? Yes ○ No ●				
Wetland Hydrology Present? Yes ○ No ●		•••				
Remarks: alpine vegetation on small rocky ridge. EGETATION -Use scientific names of plants. Lis	et all snee	cies in the	nlot			
Ose selentine names of plants. Els	st an spec	cics iii tiic	piot.	Dominance Test worksheet:		
Tues Chushiin	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
Tree Stratum 1.	0		Status		(A)	
2	0			Total Number of Dominant	(D)	
3	0				(B)	
4.				Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% ((A/B)	
5.	0					
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	: 0	OBL Species 0 x 1 = 0		
	_			FACW Species $\frac{1}{1}$ \times 2 = $\frac{1}{2}$		
1. Dryas octopetala	7		UPL	FAC Species 9 x 3 = 27		
Empetrum nigrum Ledum decumbens	1		FACW	FACU Species 22 x 4 = 88		
Ledum decumbens Vaccinium uliginosum	1		FACV	UPL Species 17 x 5 = 85		
Diapensia lapponica	10	✓	UPL		(D)	
6. Arctostaphylos alpina	5	П	FACU	Column Totals: 49 (A) 202	(B)	
7. Loiseleuria procumbens	15	✓	FACU	Prevalence Index = B/A = 4.122		
8. Rhododendron lapponicum	1		FAC	Hydrophytic Vegetation Indicators:		
9. Vaccinium vitis-idaea	1		FAC	Dominance Test is > 50%		
10. Betula nana	1		FAC	Prevalence Index is ≤3.0		
Total Cover: Herb Stratum 50% of Total Cover:	r: 9	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
Anemone parviflora	_1_	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Anthoxanthum monticola ssp. alpinum	1	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must		
3. Tofieldia coccinea	1	✓	FAC	be present, unless disturbed or problematic.		
4. Carex concinna	1	~	FAC	Plot size (radius, or length x width) 10m		
5				% Cover of Wetland Bryophytes	-	
6				(Where applicable)	_	
7				% Bare Ground	_	
8	_			Total Cover of Bryophytes 2	_	
9.						
10				Hydrophytic		
Total Cover: 50% of Total Cover:		of Total Cover	: 0.8	Vegetation Present? Yes ○ No ●		

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SOIL Sampling Point: SW12_T33_01

Frome Descripti	on: (Describe to t	he depth ne	eded to docume	ent the indicator or co	nfirm the absenc	ce of indicators))			
Depth		1atrix		Red	lox Features	5				
(inches)	Color (moi	ist)	%	Color (moist)	<u>%</u> <u>1</u>	Type ¹ _L	<u>oc</u> 2	Texture	Remarks	
0-4	7.5YR	3/2	85					Sandy Loam	15% angular gravels	
4-5	2.5YR	2.5/2	75					Sandy Loam	25% semi-ang to angular coarse gravel to c	
5-15	2.5Y	4+/3	60					Coarse Sand	40% semi-ang to angular coarse gravel to c	
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduced	I Matrix ² Location	n: PL=Pore Li	ning. RC=Ro	ot Chan	ınel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblematic H	vdric Soils:	3			
			1	Alaska Color Cl	4	yarıc sonor		Alaska Gleved Without H	ue 5Y or Redder	
l	Histosol or Histel (A1)							☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
	Sulfide (A4)			Alaska Redox \	Vith 2.5Y Hue			Other (Explain in Remark	rs)	
Thick Dark	Surface (A12)			_						
Alaska Gle	yed (A13)			One indicator of and an appropriat	hydrophytic v e landscape p	egetation, or position must	ne prima	ary indicator of wetland h	ydrology,	
Alaska Red	dox (A14)						50 p. c.			
☐ Alaska Gle	yed Pores (A15	5)		⁴ Give details of co	olor change in	Remarks				
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes):									
Remarks:										
no hydric soil in	dicators									
HYDROLO	GY									
Wetland Hydi		tors:						Secondary Indi	cators (two or more are required)	
Primary Indica)						ned Leaves (B9)	
Surface W	ater (A1)			☐ Inundation V	isible on Aeria	al Imagery (B	37)	☐ Drainage F	atterns (B10)	
High Wate	er Table (A2)			Sparsely Veg	etated Concav	ve Surface (B	88)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation	n (A3)			Marl Deposits	s (B15)			Presence of	f Reduced Iron (C4)	
Water Mai	rks (B1)			Hydrogen Su	lfide Odor (C1	L)		Salt Depos	its (C5)	
Sediment	Deposits (B2)			☐ Dry-Season \	Vater Table (C	C2)		Stunted or	Stressed Plants (D1)	
☐ Drift Depo	osits (B3)			Other (Expla	n in Remarks))		Geomorph	ic Position (D2)	
	or Crust (B4)							Shallow Ac	uitard (D3)	
☐ Algai Mat								☐ Microtopog	raphic Relief (D4)	
☐ Algai Mat	sits (B5)							FAC-neutra	I T . (DE)	
Iron Depo	osits (B5) oil Cracks (B6)							The fleatie	l Test (D5)	
Iron Depo	oil Cracks (B6)								il Test (D5)	
☐ Iron Depo	oil Cracks (B6)		No •	Depth (inche	s):					
Iron Depo Surface So Field Observa	oil Cracks (B6) ations: Present?		No •	Depth (inche	•	w	/etlan	d Hydrology Presen		
☐ Iron Depo ☐ Surface So Field Observa Surface Water	pil Cracks (B6) ations: Present? dresent?	Yes C		, ,	s):	w	/etlan			
Iron Depo Surface So Field Observa Surface Water Water Table P Saturation Pre (includes capil	ntions: Present? resent? resent? lary fringe)	Yes O	No •	Depth (inche	s): s):					
Iron Depo Surface So Field Observa Surface Water Water Table P Saturation Pre (includes capil	ntions: Present? resent? resent? lary fringe)	Yes O	No •	Depth (inche	s): s):					
Iron Depo Surface So Field Observa Surface Water Water Table P Saturation Pre (includes capil Describe Record	oil Cracks (B6) ations: Present? Iresent? Isent? Identify fringe) ded Data (streat	Yes O	No •	Depth (inche	s): s):					
Iron Depo Surface So Field Observa Surface Water Water Table P Saturation Pre (includes capil	oil Cracks (B6) ations: Present? Iresent? Isent? Identify fringe) ded Data (streat	Yes O	No •	Depth (inche	s): s):					
Iron Depo Surface So Field Observa Surface Water Water Table P Saturation Pre (includes capil Describe Record	oil Cracks (B6) ations: Present? Iresent? Isent? Identify fringe) ded Data (streat	Yes O	No •	Depth (inche	s): s):					

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