WETLAND DETERMINATION DATA FORM - Alaska Region

Name	Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-12								
Local relief (concave, convex, none): flat	Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW12 T91 01								
Local relief (concave, convex, none): flat			illside, terrac											
Subregion : Southcentral Alaska														
No Continue Note	Subrec	ion : Southcentral Alaska	Lat											
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 Are Vegetation Are Normal Circumstances" present? Yes No Are Vegetation Are Normal Circumstances Are Normal Circumstances No Are Normal Circumstances Are Normal Circumstances No Are Normal Negations Normal Circumstances No Are Normal Negations No	_		_	02.000+0020										
Are Vegetation														
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?		Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No												
Hydrophytic Vegetation Present? Yes No Set N	Are V	egetation \square , Soil \square , or Hydrology ${}^{ extstyle extstyle $	☐ naturally	problematic?	(If nee	ded, explain any answers in Remarks.)								
Hydrophytic Vegetation Present? Yes No Set N	SUMI	MARY OF FINDINGS - Attach site man	showina s	ampling poin	t locations	s transects important features, etc.								
Hydric Soil Present? Yes						, transcotte, important roataroo, etc.								
Wetland Hydrology Present? Yes	Is the Sampled Area													
VEGETATION - Use scientific names of plants. List all species in the plot.		,												
Tree Stratum			NO ∪											
Absolute Nominant Species Status Status Species Status Species Status Status Species Status Status Species Status Status Status Species Status	Keille	iiks.												
Tree Stratum														
Absolute Mocorre Mo	1 505	TATION												
Absolute Ye Cover Species? Status Status That are OBL, FACW, or FAC:	VEGE	: IATION - Use scientific names of plant	s. List all s	pecies in the	e plot.	Dominance Test weathbook								
That are OBL, FACW, or FAC: 6 (A)		6 11												
2. 0 □ Total Number of Dominant Species Across All Strata: 6 (B) 3. 0 □ Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B 5. 0 □ Prevalence Index worksheet: Total % Cover of: Multiply by: Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 OBL Species 85.1 x 1 = 85.1 FACW Species 19 x 2 = 38 FACW Species 18.1 x 3 = 54.30 FACW Species 0 x 4 = 0 UPL Species 0 x 4 = 0 UPL Species 0 x 4 = 0 UPL Species 0 x 5 = 0 UPL Species 0 x 5 = 0 Column Totals: 122.2 (A) 177.4 (I Prevalence Index = B/A = 1.452 Hydrophytic Vegetation Indicators: Image: Vegetation Indicators:		e Stratum			Status									
Special Street Stree														
A														
Total Cover: 0 Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Cover of: Multiply by: Total % Cover of: Multiply by: OBL Species 85.1 x 1 = 85.1 1. Salix barclayi 5 ✓ FAC FACW Species 19 x 2 = 38 X 2 = 38 FACW Species 19 x 2 = 38 Salix facescens 10 x 4 = 0 FACW Species 18.1 x 3 = 54.30 FACW Species 0 x 4 = 0 UPL Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 122.2 (A) 177.4 (Column Totals: 122.2 (A)				_ =										
Total Cover:O Prevalence Index worksheet: Sapling/Shrub Stratum 50% of Total Cover:O 20% of Total Cover:O OBL Species85.1x 1 =85.1 X 1 =85.1 1. Salix barclayi														
Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 OBL Species 85.1 x 1 = 85.1 1. Salix barclayi 5 ✓ FAC FACW Species 19 x 2 = 38 2. Salix pulchra 5 ✓ FACW FACW Species 18.1 x 3 = 54.30 3. Salix fuscescens 10 ✓ FACW FACU Species 0 x 4 = 0 4. 0 □ UPL Species 0 x 5 = 0 5. 0 □ Column Totals: 122.2 (A) 177.4 (I) 6. 0 □ Prevalence Index = B/A =		Total C		_										
1. Salix barclayi 2. Salix pulchra 3. Salix fuscescens 4. 0 5. 0 6. 0 7. 0 8. 0 9. 10 10 11 11 12 13 14 15 15 15 16 17 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	San			_	r: 0	001.0								
2. Salix pulchra 3. Salix fuscescens 4. 0 5. 0 6. 0 7. 0 8. 0 9. 10 10 10 10 10 10 10 10 10 10						0012								
3. Salix fuscescens 4.		· · · · · · · · · · · · · · · · · · ·												
4.		<u>'</u>												
5.					FACW									
6.														
7.						Column Totals: <u>122.2</u> (A) <u>177.4</u> (B)								
8. 0						Prevalence Index = B/A = 1.452								
9.						Hydrophytic Vegetation Indicators:								
10														
——————————————————————————————————————														
Herb Stratum 50% of Total Cover: 10 20% of Total Cover: 4 Remarks or on a separate sheet)						☐ Morphological Adaptations ¹ (Provide supporting data in								
	Her	b Stratum 50% of Total Cover	:102	20% of Total Cove										
1. Polemonium acutiflorum 3 FAC Problematic Hydrophytic Vegetation (Explain)	1.													
2. Carex aquatilis 2. Company palustre 30 OBL 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	2.	<u> </u>												
5. Containin parasite 25 Containin parasite		· · · · · · · · · · · · · · · · · · ·				be present, unless disturbed or problematic.								
4. Calamagrostis canadensis TAC Plot size (radius, or length x width) 10 10 10 10 10 10 10 10 10 1						Plot size (radius, or length x width)								
5. Sanguisorba canadensis 2														
7. Paragona polyetria		Damanaia nali sataia												
O. Public organization		Dubus pretions												
8. Rubus arcticus U.1 Total Cover of Bryophytes 30 9. Epilobium palustre OBL						Total Cover of Bryophytes 30								
OPI OPI		· · ·				Hydronhytic								
Total Cover: 102 Vegetation	10.	<u> </u>		_		Hydrophytic Vegetation								
50% of Total Cover: 51.1 20% of Total Cover: 20.44 Present? Yes No					r: <u>20.44</u>	Present? Yes No								
Remarks: Vioepi =0.1 cover, one of the Caragu w 30 cover is another robust sp (collected)	Rem	arks: Vigeni =0.1 cover one of the Caracum 2) cover is an	other robust co	(collected)									

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SOIL Sampling Point: SW12_T91_01

		ne depth need	led to docume	nt the indicator or co	nfirm the abs		cators)						
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks				
0-1	Color (mon		100	color (moist)		1,700	200	Fibric Organics					
1-16			100					Hemic Organics	mineral layer at 11				
	-				-			- Training Originates	Illineral layer at 11				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix													
Hydric Soil I	ndicators:		1	Indicators for Pr	oblematio	Hydric S	oils: ³						
✓ Histosol or	r Histel (A1)		[Alaska Color Cl	nange (TA4	4		Alaska Gleyed Without H	ue 5Y or Redder				
Histic Epip	edon (A2)		[Alaska Alpine s	wales (TA5	5)	_	Underlying Layer					
Hydrogen	Sulfide (A4)		[Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	s)				
☐ Thick Dark	Surface (A12)			_									
Alaska Gle	yed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,				
Alaska Red	dox (A14)					•	•	ESCIIC					
Alaska Gle	eyed Pores (A15))		⁴ Give details of co	olor change	in Remark	(S						
Restrictive Laye	er (if present):												
Type:								Hydric Soil Present	? Yes • No O				
Depth (inch	nes):												
	HYDROLOGY												
Wetland Hydi									cators (two or more are required)				
	tors (any one is	sufficient)							ned Leaves (B9)				
Surface W	. ,			Inundation V	isible on A	erial Image	ry (B7)		atterns (B10)				
✓ High Wate	• •			Sparsely Veg		cave Surfa	ce (B8)		hizospheres along Living Roots (C3)				
✓ Saturation	. ,			Marl Deposits	s (B15)				f Reduced Iron (C4)				
☐ Water Ma				Hydrogen Su				Salt Depos					
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)				
☐ Drift Depo				U Other (Explai	in in Remai	·ks)			c Position (D2)				
	or Crust (B4)								uitard (D3)				
Iron Depo	. ,							_	raphic Relief (D4)				
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)				
Field Observa		Yes 〇	N. A										
Surface Water	r Present?			Depth (inche	:s):								
Water Table P	resent?	Yes 💿	No \bigcirc	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes • No 🔾				
Saturation Pre (includes capil		Yes	No O	Depth (inche	es):								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
	water												
Patchy surface water													

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