WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 11-Jul-13			
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T108_06					
Investi	gator(s): JER	ce, hummocks etc.): plateau						
	elief (concave, convex, none): hummocky		Slope:		2 ° Elevation: 756			
	ion: Interior Alaska Mountains	l at ·	 62.893885611		Long.: -148.253139377 Datum: NAD83			
-		Lat	02.09300301	17				
	p Unit Name:			No ○	NWI classification: PSS1/3B			
	natic/hydrologic conditions on the site typical for this	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
		•	itly disturbed?		iormai oireametanees present:			
Are v	egetation . , Soil . , or Hydrology	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)			
SUMI	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No	\supset		41	.1. 1 A			
	Hydric Soil Present? Yes ● No (\supset		Is the Sampled Area within a Wetland? Yes No				
	Wetland Hydrology Present? Yes No	\supset	Wi	thin a W	etland? Yes S No C			
	arks: adjacent large slope graminoid fen V04, slobe, s	tanding w	ater in depressi	ons				
VEGE	TATION - Use scientific names of plants. L	ist all sr	ecies in the	plot.				
		Absolut			Dominance Test worksheet:			
Tre	e Stratum_	% Cove		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 8 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 8 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cove	r: <u> </u>	_		Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species 2 x 1 = 2			
1.	Vaccinium uliginosum	30	✓	FAC	FACW Species 41 x 2 = 82			
2.	Rhododendron tomentosum	30	✓	FACW	FAC Species <u>111</u> x 3 = <u>333</u>			
3.	Empetrum nigrum	25	✓	FAC	FACU Species 1 x 4 = 4			
4.	Betula nana	25	✓	FAC	UPL Species			
5.	Vaccinium vitis-idaea	10		FAC	Column Totals: <u>155</u> (A) <u>421</u> (B)			
6.	Salix fuscescens	3		FACW				
7.	Salix pulchra	2		FACW	Prevalence Index = B/A = 2.716			
8.	Dasiphora fruticosa	2		FAC	Hydrophytic Vegetation Indicators:			
9.	Picea glauca	1		FACU	✓ Dominance Test is > 50%			
10.	Arctous ruber	1	_	FAC	✓ Prevalence Index is ≤3.0			
	Total Cove				☐ Morphological Adaptations ¹ (Provide supporting data in			
Her	b Stratum 50% of Total Cover:		0% of Total Cover		Remarks or on a separate sheet)			
1.	Carex bigelowii	8	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Rubus chamaemorus	3		FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Festuca altaica			FAC	be present, unless disturbed of problematic.			
4.	Senecio lugens Trichophorum caespitosum	- 3		FAC OBL	Plot size (radius, or length x width)			
5. 6	Cornus suecica	2	-	FAC	% Cover of Wetland Bryophytes			
6. 7.	Dodecatheon frigidum	- 2	-	FACW	(Where applicable)			
8.	Pedicularis labradorica	- <u>-</u>	-	FACW	% Bare Ground			
9.	Equisetum arvense			FAC	Total Cover of Bryophytes60			
10.	Tofieldia coccinea			FAC	Hydrophytic			
	Total Cove	- — r: 26	_		Hydrophytic Vegetation			
	50% of Total Cover:		_ % of Total Cover:	5.2	Present? Yes No			
Rem		13 20	% of Total Cover:	5.2	Present? Yes No			

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SOIL Sampling Point: SW13_T108_06

Profile Description Depth		· · · · · · · · · · · · · · · · · · ·	1. de decume		C H phoones of	(· -:	Sumpling		
Denth	on: (Describe to	the depth ne	eded to docume	nt the indicator or co	nfirm the absence of dox Features	f indicators)			
(inches)	Color (m		<u> </u>	Color (moist)		e ¹ Loc ²	Texture	Remarks	
0-4	COIO: (III	DISLJ	100	20101 (IIIOISL)	70 1994	<u> </u>	Fibric Organics		
4-7			100				Hemic Organics		
7-9	7.5YR	2 5/2	100				Sandy Loam		
		2.5/3							
9-15	10YR	4/6	100				Sand		
¹Type: C=Con	ncentration. D	=Depletion.	RM=Reduced	Matrix ² Location	n: PL=Pore Lining	g. RC=Root Cha	nnel. M=Matrix		
Hydric Soil Ir	ndicators:]	indicators for Pr	oblematic Hydr	ric Soils: ³			
	Histel (A1)			Alaska Color Ch	4		Alaska Gleyed Without Hu	e 5Y or Redder	
Histic Epipedon (A2)							Underlying Layer		
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y Hue	✓	Other (Explain in Remarks	s)	
☐ Thick Dark	Surface (A12	2)							
Alaska Gle	yed (A13)			 One indicator of and an appropriat 			nary indicator of wetland hy esent	drology,	
Alaska Red	` '			4 Give details of co		·			
☐ Alaska Gle	yed Pores (A1	.5)		· Give details of Co	Jioi Change in Rei	illai KS			
Restrictive Laye	er (if present)	:							
Type:							Hydric Soil Present?	Yes No	
Depth (inch	nes):								
Remarks:									
tested positive f	for a,a-dipyrio	lyl							
HYDROLO	GY								
Wetland Hydr		ators:					Secondary Indic	ators (two or more are required)	
Primary Indicat)					ed Leaves (B9)	
Surface W	/ater (A1)			☐ Inundation V	isible on Aerial Im	nagery (R7)	□		
✓ High Wate	er Table (A2)				etated Concave S		□ Drainage Pa	atterns (B10)	
	(43)							atterns (B10) izospheres along Living Roots (C3)	
✓ Saturation	1 (43)			Marl Deposits	s (B15)		Oxidized Rh	` '	
Saturation Water Mai	. ,				s (B15) Ilfide Odor (C1)		Oxidized Rh	izospheres along Living Roots (C3) Reduced Iron (C4)	
Water Mar	. ,			Hydrogen Su	. ,		Oxidized Rh Presence of Salt Deposit	izospheres along Living Roots (C3) Reduced Iron (C4)	
Water Mar	rks (B1) Deposits (B2)			Hydrogen Su Dry-Season \	lfide Odor (C1)		Oxidized Rh Presence of Salt Deposit	izospheres along Living Roots (C3) Reduced Iron (C4) ss (C5) Stressed Plants (D1)	
Water Mai Sediment Drift Depo	rks (B1) Deposits (B2)			Hydrogen Su Dry-Season \	ilfide Odor (C1) Water Table (C2)		Oxidized RH Presence of Salt Deposit Stunted or to	izospheres along Living Roots (C3) Reduced Iron (C4) ss (C5) Stressed Plants (D1) Position (D2)	
Water Mai Sediment Drift Depo	rks (B1) Deposits (B2) osits (B3) or Crust (B4)			Hydrogen Su Dry-Season \	ilfide Odor (C1) Water Table (C2)		Oxidized Rh Presence of Salt Deposi Stunted or Geomorphic Shallow Aqu	izospheres along Living Roots (C3) Reduced Iron (C4) ss (C5) Stressed Plants (D1) Position (D2)	
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