WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 23-Jun-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T19_04
	igator(s): JGK		Landform (hill	lside, terrac	ce, hummocks etc.): Floodplain
	relief (concave, convex, none): concave		Slope:		5 ° Elevation: 849
	gion : Southcentral Alaska	Lat:	62.78468831		Long.: -149.522085742 Datum: NAD83
		Lat	02.70400031	11	
	ap Unit Name:		- \	<u> </u>	NWI classification: Upland
Are '		significantly	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes ● No ○		- F3 F		., п
	() () () () () () () () () ()		Is	the Sam	pled Area
			wi	ithin a W	etland? Yes ○ No ●
Rem	Wetland Hydrology Present?Yes ○ No	<i>y</i>	1		
	ETATION - Use scientific names of plants. L	ist all spe Absolute % Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species
1.		0		-	That are OBL, FACW, or FAC: 3 (A)
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	:			Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species $0 \times 1 = 0$
1	Salix glauca	10	✓	FAC	FACW Species 40 x 2 = 80
	Salix pulchra		✓	FACW	FAC Species 48.1 x 3 = 144.3
3.	•				FACU Species <u>15</u> x 4 = <u>60</u>
4.		0			UPL Species <u>0</u> x 5 = <u>0</u>
5.					Column Totals: <u>103.1</u> (A) <u>284.3</u> (B)
6.					
7.		0			Prevalence Index = B/A =2.758
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
He	Total Cover rb Stratum 50% of Total Cover:		6 of Total Cover	r: <u>10</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Geranium erianthum			FACU	Problematic Hydrophytic Vegetation (Explain)
2.	Maianthemum racemosum			FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Mertensia paniculata			FACU	be present, unless disturbed or problematic.
4.	Chamaenerion angustifolium			FACU	Plot size (radius, or length x width)
5.	Heracleum maximum	5		FACU	% Cover of Wetland Bryophytes
6.	Equisetum arvense	30		FAC FAC	(Where applicable)
7. 8.	Calamagrostis canadensis Artemisia tilesii			FACU	% Bare Ground
O.	Anemone richardsonii	1		FAC	Total Cover of Bryophytes
	, anomorio nonaradorni			FAC	Hydronbydia
9.	Sanguisorba menziesii	0.1			
	Sanguisorba menziesii Total Cover	53.1			Hydrophytic Vegetation
9.	Sanguisorba menziesii Total Cover 50% of Total Cover:2	53.1	of Total Cover:	10.62	Vegetation Present? Yes No

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SOIL Sampling Point: SW12_T19_04

Profile Descripti	on: (Describe to	the depth ne	eded to docur	ment the indicator or co	nfirm the abse	ence of indica	ators)		
Depth		Matrix			dox Featur				
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-2			80					Fibric Organics	20% roots
2-3			80					Hemic Organics	20% roots
3-4			100					Sapric Organics	
4-7	10YR	4/1+	85					Loamy Sand	15% roots
7-14	10YR	4/2	85					Loamy Sand	thin O layer at top semi angular gravel & c
14+				"					Large 5-7 in diam cobbles (rounded)
	-								
	-								
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblematic	Hydric So	ils: ³		
	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	. ,			Alaska Alpine s				Underlying Layer	ac 5. 5. Neade.
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y Hu	ue		Other (Explain in Remark	(S)
Thick Dark	Surface (A12)							
Alaska Gle	yed (A13)			One indicator of and an approprial				nary indicator of wetland hesent	nydrology,
Alaska Red	dox (A14)				•	•	·		
☐ Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor change	п кетак	•		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes ○ No •
Depth (inch	nes):								
Remarks:									
i									
HYDROLO	GY								
HYDROLO Wetland Hydi		ntors:						_Secondary Indi	cators (two or more are required)
Wetland Hydi Primary Indica	rology Indica tors (any one)					Water Stai	ned Leaves (B9)
Wetland Hydromary Indicate Windows Surface W	rology Indica tors (any one /ater (A1))	☐ Inundation V		-		Water Stai	ned Leaves (B9) Patterns (B10)
Wetland Hydromann Primary Indicated Surface William High Water	rology Indicators (any one /ater (A1) er Table (A2))	Sparsely Veg	etated Conc	-		☐ Water Stai☐ Drainage F☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Wetland Hydromary Indicators Surface William High Water Saturation	rology Indicators (any one //ater (A1) er Table (A2) n (A3))	Sparsely Veg Marl Deposits	etated Conc s (B15)	cave Surfac		Water Stai Drainage F Oxidized R Presence o	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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Wetland Hydromany Indica Primary Indica Surface W High Wate Saturation Water Mar	rology Indicators (any one later (A1) er Table (A2) in (A3) rks (B1) Deposits (B2))	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	etated Cond s (B15) Ilfide Odor (I Water Table	cave Surfac C1) (C2)		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
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