WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Aug-12			
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW12_T44_02					
Investig	gator(s): CTS, EKJ	side, terrac	ide, terrace, hummocks etc.): Channel (active)					
Local r	elief (concave, convex, none): flat	% / 1.0	° Elevation: 753					
	ion : Interior Alaska Mountains		· 2.897749908		Long.: -148.475839971 Datum: WGS84			
_								
	p Unit Name:			No ○	NWI classification: Upland			
Are V Are V	regetation , Soil , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No No		Is the Sampled Area					
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ○ No •					
	Wetland Hydrology Present? Yes ○ No ⓐ arks: Classic riverine Stcaw on bar in active channel							
VEGE	ETATION - Use scientific names of plants. L	Absolute	Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.					Total Number of Dominant			
2.		0			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:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species x 1 =0			
1.	Alnus viridis ssp. crispa	45	✓	FAC	FACW Species 9 x 2 = 18			
2.	Salix alaxensis	15		FAC	FAC Species <u>124.1</u> x 3 = <u>372.3</u>			
3.	Picea glauca	5		FACU	FACU Species 12.1 x 4 = 48.40			
4.	Salix pulchra	1		FACW	UPL Species0 x 5 =0			
5.	Dasiphora fruticosa	1		FAC	Column Totals: <u>145.2</u> (A) <u>438.7</u> (B)			
6.	Salix barclayi	25	✓	FAC				
7.	Populus balsamifera	1		FACU	Prevalence Index = B/A = 3.021			
8.	Vaccinium uliginosum	_1_		FAC	Hydrophytic Vegetation Indicators:			
9.	Salix pseudomonticola	_1_		FAC	✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Her	Total Cover b Stratum 50% of Total Cover:		of Total Cover	: 19	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis	35	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Chamerion angustifolium	2		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Trientalis europaea			FACU	be present, unless disturbed or problematic.			
4.	Mertensia paniculata	2		FACU	Diet size (vadius au laneth v viidh)			
5.	Viola epipsila	7		FACW	Plot size (radius, or length x width) 10m			
6.	Sanguisorba canadensis	1		FACW	% Cover of Wetland Bryophytes (Where applicable)			
7.	Geranium erianthum	1		FACU	% Bare Ground 15			
8.	Aconitum delphinifolium	0.1		FAC	Total Cover of Bryophytes 5			
9.	Thalictrum sparsiflorum	0.1		FACU				
10.	Anemone richardsonii	1		FAC	Hydrophytic			
	Total Cover 50% of Total Cover:		of Total Cover:	_10.04	Vegetation Present? Yes ● No ○			
Rem	arks: Rubarc, Compal = 0.1 cover, Corcan = 1							

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SOIL Sampling Point: SW12_T44_02

Profile Descript	ion: (Describe to t	he depth ne	eded to docu	ment the indicator or co	nfirm the at	sence of indic	ators)				
Depth		latrix			lox Feat			_			
(inches)	Color (moi	st)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-3			85					Fibric Organics	15% roots		
3-5	10YR	3/3	95					Sandy Loam	5% roots, few rounded coarse gravel		
5-19	10YR	3/3	70					Sand	30% fine rounded gravel-cobbles		
									. ———		
								-			
¹ Type: C=Cor	ncentration. D=	Depletion	RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	.5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	ks)		
Thick Dark	c Surface (A12)			3 0 :	la				or advada and		
Alaska Gle	eyed (A13)			and an appropriat				mary indicator of wetland hesent	nydrology,		
Alaska Red	. ,						•				
☐ Alaska Gle	eyed Pores (A15)		4 Give details of co	DIOT CHANG	je ili Kemark	5				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes O No 🖲		
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators										
'											
HYDROLO	CV										
	rology Indicat	tore:						Cocondany Indi	cators (two or more are required)		
-	itors (any one is		-)					Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
		Jamelen	-1	Inundation V	icible on /	Vorial Image	n (R7)		Patterns (B10)		
Surface Water (A1) High Water Table (A2)				☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)					thizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits (B15)					of Reduced Iron (C4)			
Water Marks (B1)			Hydrogen Sulfide Odor (C1)				Salt Depos	` '			
Sediment Deposits (B2)			Dry-Season Water Table (C2)					Stressed Plants (D1)			
Drift Deposits (B3)					Other (Explain in Remarks)				ic Position (D2)		
	Algal Mat or Crust (B4)								quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa									. ,		
Surface Water	r Present?	Yes C	No 💿	Depth (inche	s):						
Water Table F	Present?	Yes C	No •	Depth (inche	c).		Wetla	nd Hydrology Presen	nt? Yes O No 💿		
Saturation Pre				, ,	•		1100.0				
(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 indicato	rs									

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