WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW12_T52_06
	gator(s): CTS, EKJ		Landform (hill	side, terrac	ee, hummocks etc.): Swale
	elief (concave, convex, none): concave		Slope: 5.2		° Elevation: 713
	ion: Interior Alaska Mountains		52.789489908		Long.: -148.526239969 Datum: WGS84
_		Lat(02.709409900	04	
	p Unit Name:			No ○	NWI classification: PSS1B
Are V Are V		ignificantly aturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.)
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Is	the Sam	pled Area
				thin a W	
	Wetland Hydrology Present? Yes ● No ○				
	TATION -Use scientific names of plants. Lis	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species
	e Stratum Picea mariana	% Cover 8	_Species?_	Status FACW	That are OBL, FACW, or FAC:4 (A)
2.				FACVV	Total Number of Dominant
3.					Species Across All Strata: 4 (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.					
0.	Total Cover:	8			Prevalence Index worksheet: Total % Cover of: Multiply by:
San			of Total Cover:	1.6	001.0
Сар					OBL Species 40 x1 = 40 FACW Species 11.2 x2 = 22.40
1.	Dasiphora fruticosa	40	✓	FAC	
	Myrica gale	40	✓	OBL	
3.	Betula nana	5		FAC	FACU Species 5.1 x 4 = 20.4 UPL Species 0 x 5 = 0
4. 5.	Salix barclayi	1		FACU	
6.	Viburnum edule Rosa acicularis	2		FACU	Column Totals: <u>124.5</u> (A) <u>287.4</u> (B)
7.	Rosa adicularis			FACU	Prevalence Index = B/A = 2.308
_					Hydranhytic Vocatation Indicators
8. 9.					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
	Total Cover: 50% of Total Cover:		of Total Cover	: 17.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Thalictrum occidentale	0.1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Sanguisorba canadensis			FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus arcticus (IAM)	1		FACU	be present, unless disturbed or problematic.
4.	Aconitum delphinifolium	0.1		FAC	Plot size (radius, or length x width) 10m
5.	Cornus canadensis	1		FACU	Plot size (radius, or length x width) 10m 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6.	Equisetum arvense		✓	FAC	(Where applicable)
7.	Equisetum sylvaticum	2		FAC	% Bare Ground
8.	Swertia perennis	0.1		FACW	Total Cover of Bryophytes
9.	Viola epipsila	0.1		FACW	
10.	Calamagrostis canadensis	0.1		FAC	Hydrophytic
	Total Cover: 50% of Total Cover: <u>13</u>	<u>27.5</u> 3.75 20%	of Total Cover:	5.5	Vegetation Present? Yes ● No ○
Rem	arks: Rumex arcticus = 0.1 cover				

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SOIL Sampling Point: SW12_T52_06

(inches) Color (m			dox Features	1 2	- Ta a-taa	Down-de-
0-4	oist) <u>%</u> 100	Color (moist)	<u>%</u> Typ	pe ¹ Loc ²	Texture Fibric Organics	Remarks
						<u> </u>
4-5					Hemic Organics	_
5-9					Sapric Organics	m F
9-16						rnd cobbles, ang-rnd gravel, water
					-	-
Type: C=Concentration. D	=Depletion. RM=R	educed Matrix ² Location	n: PL=Pore Linir	ng. RC=Root Cha	annel. M=Matrix	-
Hydric Soil Indicators:		Indicators for P	roblematic Hyd	ric Soils:		
Histosol or Histel (A1)		Alaska Color C	Change (TA4)		Alaska Gleyed Without H	lue 5Y or Redder
✓ Histic Epipedon (A2)		Alaska Alpine	swales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox	With 2.5Y Hue		Other (Explain in Rema	rks)
Thick Dark Surface (A12	2)	2.5				
Alaska Gleyed (A13)			f hydrophytic veg ate landscape pos		mary indicator of wetland esent	hydrology,
Alaska Redox (A14)				•		
Alaska Gleyed Pores (A1	5)	Give details of o	color change in R	emarks		
estrictive Layer (if present)						
Type:					Hydric Soil Presen	t? Yes 🏵 No 🔾
Depth (inches):						
emarks: -16: water flowing between	cobbles and grave	I. No soil in pore space				
	cobbles and grave	I. No soil in pore space				
	cobbles and grave	l. No soil in pore space				
YDROLOGY Vetland Hydrology Indic	ators:	I. No soil in pore space				icators (two or more are required)
YDROLOGY Vetland Hydrology Indic	ators:				Water Sta	ined Leaves (B9)
YDROLOGY Vetland Hydrology Indic Primary Indicators (any one Surface Water (A1)	ators:	Inundation \	Visible on Aerial I		Water Sta	ined Leaves (B9) Patterns (B10)
YDROLOGY Vetland Hydrology Indic Primary Indicators (any one Surface Water (A1) High Water Table (A2)	ators:	☐ Inundation Sparsely Ve	getated Concave		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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