WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:	02-Aug-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point:SV	V12_T54_01
Investi	gator(s): SLI, KMK		Landform (hil	lside, terrac	e, hummocks etc.): Swale	
Local r	elief (concave, convex, none): flat		Slope:	% / 5.0	° Elevation: 784	
Subreg	ion : Southcentral Alaska	Lat.:	62.82958658	79	Long.: -149.152752376 Da	tum: NAD83
Soil Ma	p Unit Name:				NWI classification: Upland	
Are clir	natic/hydrologic conditions on the site typical for this	•		● No ○	(If no, explain in Remarks.)	
	egetation U , Soil U , or Hydrology U	J	ntly disturbed?		lormal Circumstances" present? Yes	● No ○
Are V	egetation . , Soil . , or Hydrology .	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)	
SUMI	MARY OF FINDINGS - Attach site map sh		impling point	locations	s, transects, important features, e	etc.
	Hydrophytic Vegetation Present? Yes No		ls	the Sam	pled Area	
	Hydric Soil Present? Yes O No			ithin a W	-	
	Wetland Hydrology Present? Yes Norks: drainageway w no exposed rock and well devel		Ų		Citaria :	
	toward SW12_T54_02. TATION - Use scientific names of plants.					ge g. aac
	·	Absolut			Dominance Test worksheet:	
Tree	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC:	4 (A)
1.		0	_		Total Number of Dominant	_4 (A)
2.		0	_		Species Across All Strata:	5 (B)
3.		0	_		Percent of dominant Species	
4.		0	_ 🖳		That Are OBL, FACW, or FAC: 8	0.0% (A/B)
5.		0			Prevalence Index worksheet:	
	Total Cov	er: <u> </u>	_		Total % Cover of: Multiply b	y:
Sap	ing/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover	:0	OBL Species 0 x 1 =	0
1.	Betula nana	25	~	FAC	FACW Species <u>14</u> x 2 =	28
2.	Vaccinium uliginosum		v	FAC	FAC Species x 3 =	213
3.	Vaccinium vitis-idaea			FAC	FACU Species 4 x 4 =	16
4.	Empetrum nigrum	4.5	i	FAC	UPL Species 5 x 5 =	25
5.	Rhododendron tomentosum	3		FACW	Column Totals: 94 (A)	282 (B)
6.	Picea glauca	1	_	FACU		
7.	Salix fuscescens	10		FACW	Prevalence Index = B/A =3	3.000
8.		0	_		Hydrophytic Vegetation Indicators:	
9.		0	_		✓ Dominance Test is > 50%	
10.		0	_ ⊔		✓ Prevalence Index is ≤3.0	
Her	Total Covers 50% of Total Covers			r: <u>15.4</u>	Morphological Adaptations ¹ (Provide so Remarks or on a separate sheet)	
1.	Carex bigelowii	5	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Anthoxanthum monticola ssp. monticola	2	_	UPL	¹ Indicators of hydric soil and wetland hydrol	
3.	Festuca altaica	_ 3	_	FAC	be present, unless disturbed or problematic.	
4.	Artemisia frigida	3		UPL	Plot size (radius, or length x width)	10m
5.	Bistorta plumosa			FACU	% Cover of Wetland Bryophytes	
6.	Pedicularis capitata			FACU	(Where applicable)	
7.	Anemone narcissiflora	_		FACU	% Bare Ground	0
8.	Sanguisorba canadensis			FACW	Total Cover of Bryophytes	80
9.			-			
10.	Tatal Care	0	_		Hydrophytic	
	Total Cov e 50% of Total Cover:			:3.4	Vegetation Present? Yes ● No ○	
Rem	arks: brosit unid brome-like grass, collected. anem	none gone	to seed. 1% uni	id grass (no	infl, wide purplish lvs, likely arctagrostis	as at other sites).

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SOIL Sampling Point: SW12_T54_01

Profile Descript									
		the depth nee Matrix	eded to docum	nent the indicator or co	nfirm the abso		ators)		
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-2			100					Fibric Organics	
2-3.5			100					Hemic Organics	
3.5-4.5			100					Sapric Organics	
4.5-5.5	7.5YR	4/2	100					Silt Loam	
5.5-18	7.5YR	3/4	70					Sandy Loam	30% subangular gravels to cobbles
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblematic	Hydric So	oils:		
Histosol o	r Histel (A1)			Alaska Color C	hange (TA4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	oedon (A2)			Alaska Alpine s	•	•		Underlying Layer	
	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y H	ue		Other (Explain in Remark	s)
l —	k Surface (A12))		³ One indicator of	hvdrophyti	r vegetation	n. one prim	nary indicator of wetland h	vdrologv.
Alaska Gle				and an appropria					yurorog,,
Alaska Gle	dox (A14) eyed Pores (A15	5)		⁴ Give details of o	olor change	in Remarks	S		
))							
Restrictive Laye Type:	er (If present):							Undric Sail Brosant	? Yes ○ No •
Depth (incl	nes):							Hydric Soil Present	? tes ∪ NO ©
Remarks:									
	oc hetween hor	izone hurie	d organic le	enses throughout. n	o bydric soil	indicators			
Wavy Doundan	ES DELWEEN NO.	IZUIIS, Duin	u organic ic	ilises ulibugiloud	U Hyunc son	Hiuicacoror			
HYDROLO	GY								
HYDROLO Wetland Hyd		tors:						Secondary India	rators (two or more are required)
Wetland Hyd									cators (two or more are required) ned Leaves (B9)
Wetland Hyd Primary Indica	rology Indica			☐ Inundation V	'isible on Ae	rial Imager	y (B7)	Water Stair	
Wetland Hyd Primary Indica Surface W	rology Indica ators (any one i			☐ Inundation V		-		Water Stain Drainage P	ned Leaves (B9)
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