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: SW12_T54_01
	pator(s): SLI, KMK		Landform (hil	lside, terrac	e, hummocks etc.): Swale
-	elief (concave, convex, none): flat		Slope: 7.0		° Elevation: 802
	ion : Southcentral Alaska	l at ·	 62.82958824		Long.: -149.152776638 Datum: WGS84
_		Lat	02.02930024	JZ	
	p Unit Name:			No ○	NWI classification: Upland
Are V		significan naturally	itly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ioded, explain any answers in Remarks.) Ioded, explain any answers in Remarks.) Ioded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes No C				
	Hydric Soil Present? Yes No (Is	the Sam	pled Area
	· · · · · · · · · · · · · · · · · · ·		w	ithin a W	etland? Yes ○ No •
	, 0,				
	toward SW12_T54_02. TATION -Use scientific names of plants. Li		·		ndra, steep w exposed rock at boundaries. gentle grade Dominance Test worksheet:
Tro	Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species
1.	: Stratum	0		Status	That are OBL, FACW, or FAC:4 (A)
2.		0	_		Total Number of Dominant
3.		0			Species Across All Strata:5 (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cover	:	_		Total % Cover of: Multiply by:
Sap	ing/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover	:0	OBL Species x 1 =0
1.	Betula nana	25	✓	FAC	FACW Species 14 x 2 = 28
2.	Vaccinium uliginosum	20	~	FAC	FAC Species
3.	Vaccinium vitis-idaea	3		FAC	FACU Species <u>4</u> x 4 = <u>16</u>
4.	Empetrum nigrum	15		FAC	UPL Species <u>5</u> x 5 = <u>25</u>
5.	Ledum decumbens	3		FACW	Column Totals: 94 (A) 282 (B)
6.	Picea glauca	1		FACU	
7.	Salix fuscescens	10		FACW	Prevalence Index = B/A = 3.000
8.		0			Hydrophytic Vegetation Indicators:
9.		0	_ 🖳		✓ Dominance Test is > 50%
10.		0	_		✓ Prevalence Index is ≤3.0
Her	Total Cover 50% of Total Cover:			r: <u>15.4</u>	 Morphological Adaptations ¹ (Provide supporting data in 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 hydrology must
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	1	_	FACU	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6.	Pedicularis capitata	1	_ 🖳	FACU	(Where applicable)
7.	Anemone narcissiflora		- =	FACU	% Bare Ground
8.	Sanguisorba canadensis		-	FACW	Total Cover of Bryophytes 80
9.			_ =		
10.		0	_		Hydrophytic
	Total Cover 50% of Total Cover:		_	:3.4	Vegetation Present? Yes ● No ○
D					to first state assumble has 19 has a second state of the second st
Rem	brosit unid brome-like grass, collected. anemo	ne gone t	to seed. 1% uni	a grass (no	infl, wide purplish lvs, likely arctagrostis as at other sites).

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SOIL Sampling Point: SW12_T54_01

(inches)	Color (m	oist)	%	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
3.5 10	7.5110								50 70 Subdrigular gravels to cobbies
					·				
	-								-
Type: C=Co	ncentration. D	=Depletion	ı. RM=Reducec	1 Matrix ² Locatio	n: PL=Pore	Lining. RC:	=Root Cha	nnel. M=Matrix	
ydric Soil I	ndicators:			Indicators for P	4	4	ils: ³	_	
Histosol o	r Histel (A1)		ļ	Alaska Color C				Alaska Gleyed Without F	lue 5Y or Redder
Ξ	pedon (A2)		l 1	Alaska Alpine				Underlying Layer	lra)
¬ ′ ັ	Sulfide (A4)		L	Alaska Redox	With 2.5Y Hu	ie		Other (Explain in Remar	KS)
_	k Surface (A12	.)		³ One indicator of	f hydrophytic	vegetation	n, one prin	nary indicator of wetland I	hydrology,
☐ Alaska Gie	eyed (A13)			and an appropria	ite landscape	position m	nust be pre	esent	
_	eyed Pores (A1	.5)		4 Give details of o	color change	in Remarks	S		
	er (if present)	•							
Type:	er (ii present)	i						Hydric Soil Present	:? Yes O No •
Depth (inc	h) .							nyunc son Present	.: 1es 🔾 110 🔾
	nes):								
marks:	<u>, </u>	rizons, bur	ried organic len	nses throughout. n	no hydric soil	indicators.			
marks:	<u>, </u>	orizons, but	ried organic ler	ises throughout. n	no hydric soil	indicators.			
emarks: emy boundari	es between ho		ried organic ler	ises throughout. n	no hydric soil	indicators.			
emarks: nyy boundari /DROLO etland Hyd	es between ho	ators:		ises throughout. n	no hydric soil	indicators.			icators (two or more are required)
marks: Ny boundari OROLO etland Hyd imary Indica	es between ho	ators:						Water Sta	ined Leaves (B9)
PROLO etland Hydrimary Indica	OGY rology Indicators (any one Vater (A1)	ators:		Inundation \	/isible on Aer	ial Imager	y (B7)	Water Sta	ined Leaves (B9) Patterns (B10)
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