WETLAND DETERMINATION DATA FORM - Alaska Region

Proje	ct/Site: Susitna-Watana Hydroelectric Project		Borough/Cit	y: Matanusk	ka-Susitna Borough Sampling Date: 24-Jun-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T17_05
	igator(s): SLI, LMF		Landform (hillside, terrac	ce, hummocks etc.): Gulch or Gully
	relief (concave, convex, none): flat		Slope:	% / 25.	
	gion : Southcentral Alaska	l at ·	 62.790578		Long.: -148.936805737 Datum: NAD83
	ap Unit Name:	Lut	02.790370	2121	NWI classification: Upland
			- 0 V	es No	
	imatic/hydrologic conditions on the site typical for this til Vegetation \Box , Soil \Box , or Hydrology \Box s	•	ar? tly disturbed		(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○
		-	problematic?		tornal olloanistarioes present:
		•		,	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map show	wing sa	mpling po	int locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C)		la 4h a O assa	unte di Anne
	Hydric Soil Present? Yes No •)		Is the Sam	
	Wetland Hydrology Present? Yes No C)		within a W	retiand? res ono o
Rem	arks: characterizing steep alder community along gully	walls. so	il profile in s	ightly less stee	ep terrain for safety reasons.
VEG	ETATION - Use scientific names of plants. Li	st all sp	ecies in th	ne plot.	
	•	Absolut		nt Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Cove			Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.		0			That are OBL, FACW, or FAC:2 (A) Total Number of Dominant
2.		0			Species Across All Strata: (B)
3.		0	_ 📙		Percent of dominant Species
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Covers		_		Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Co	/er: <u>0</u>	OBL Species
1.	Alnus viridis	_70	~	FAC	FACW Species 1 x 2 = 2
2.	Spiraea stevenii	5		FACU	FAC Species 93 x 3 = 279
3.	Vaccinium uliginosum	1	_	FAC	FACU Species <u>8</u> x 4 = <u>32</u>
	Vaccinium vitis-idaea			FAC	UPL Species <u>3</u> x 5 = <u>15</u>
5.					Column Totals: <u>105</u> (A) <u>328</u> (B)
6.					Prevalence Index = B/A = 3.124
7.		0	-		
8.		0	-		Hydrophytic Vegetation Indicators: Dominance Test is > 50%
9.		0			
10.	Total Cover:				☐ Prevalence Index is ≤3.0
He	rb Stratum 50% of Total Cover:			ver: 15.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.		1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Geranium bicknellii			UPL	¹ Indicators of hydric soil and wetland hydrology must
3.	Chamaenerion angustifolium	2		FACU	be present, unless disturbed or problematic.
4.	Calamagrostis canadensis	20	✓	FAC	Plot size (radius, or length x width) 10m
5.	Rubus chamaemorus	1		FACW	Plot size (radius, or length x width)
٥.		1		FACU	(Where applicable)
6.	Dryopteris expansa				O/ Paus Custind
6. 7.			_		% Bare Ground
6. 7. 8.		0			Total Cover of Bryophytes
6. 7. 8. 9.		0			
6. 7. 8. 9.		0 0 0			Total Cover of Bryophytes Hydrophytic
6. 7. 8. 9.		0 0 0 28		ver: 5.6	Total Cover of Bryophytes

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SOIL Sampling Point: SW12_T17_05

Depth	Matrix		Re	edox Featu	res		_	
: ·	moist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
0-2							Fibric Organics	_
2-3							Hemic Organics	
3-6							Sapric Organics	with ca. 20% silt
6-11 10YR	2/1	30					Sandy Loam	70% fine gravel and cobbles 3-4in
								-
								-
T								-
Type: C=Concentration	D=Depletion		Indicators for P				annei. M=Matrix	
lydric Soil Indicators:			Alaska Color C		4	olis:] Alaska Claused With aut I	lua EV au Daddau
☐ Histosol or Histel (A1			Alaska Color C		•		Alaska Gleyed Without I Underlying Layer	lue 5Y or Redder
Histic Epipedon (A2)			Alaska Redox	•	•		Other (Explain in Remar	ks)
☐ Hydrogen Sulfide (A4			Alaska Redox	WIUI Z.51 F	nue		J Other (Explain in Remai	10)
☐ Thick Dark Surface (A	12)		³ One indicator o	f hydrophyt	ic vegetatio	n, one prin	mary indicator of wetland	hvdrology,
Alaska Gleyed (A13)			and an appropria					, 5,,
	A15)		4 Give details of of	color change	e in Remarl	(S		
estrictive Layer (if prese	 it):							
Type:	•						Hydric Soil Present	t? Yes ○ No •
							•	
Depth (inches): emarks: oil pit in slightly less stee cck, alnus communities. I	terrain for seefusal at 11"	afety reasons. due to cobble	many exposed bloss.	ocks/talus, v	w alnus gro	wing in and	d around. both sides of gu	ılly similar aerial signatures, expose
emarks: bil pit in slightly less stee	o terrain for s efusal at 11"	afety reasons. due to cobble	many exposed bloss.	ocks/talus, v	w alnus gro	wing in and	d around. both sides of gu	illy similar aerial signatures, expose
emarks: iil pit in slightly less stee ck, alnus communities. I	efusal at 11"	afety reasons due to cobble	many exposed blooms.	ocks/talus, v	w alnus gro	wing in and		
emarks: iil pit in slightly less stee ck, alnus communities. I YDROLOGY Vetland Hydrology Inc	efusal at 11"	due to cobble	many exposed bloes.	ocks/talus, v	w alnus gro	wing in and	_Secondary Ind	icators (two or more are required)
emarks: iil pit in slightly less stee ck, alnus communities. I YDROLOGY //etland Hydrology Indicators (any communities)	efusal at 11"	due to cobble	es.				Secondary Ind	icators (two or more are required) ined Leaves (B9)
PMOLOGY Vetland Hydrology Indicators (any of Surface Water (A1)	icators:	due to cobble	Inundation \	Visible on A	erial Image	ry (B7)	Secondary Ind Water Sta	icators (two or more are required) ined Leaves (B9) Patterns (B10)
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emarks: il pit in slightly less stee ck, alnus communities. I YDROLOGY Yetland Hydrology Inc rimary Indicators (any c Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3)	icators:	due to cobble	Inundation \ Sparsely Veg	Visible on A getated Cor ts (B15)	erial Image ncave Surfa	ry (B7)	Secondary Ind Water Sta Drainage Oxidized I Presence	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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