WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelec	tric Project	Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date:	05-Aug-13
Applica	int/Owner: Alaska Energy Authori	ty				Sampling Point: SW	/13_T192_04
Investi	gator(s): CTS, AMD		L	andform (hill	side, terrac	e, hummocks etc.): Flat	
Local r	elief (concave, convex, none): fla	t		Slope: 1.0	% / 0.6	° Elevation: 699	
Subred	ion: Interior Alaska Mountains		Lat: 6	3.333187103		 Long.: -148.240439892 Da	atum: WGS84
	p Unit Name:			0.000107100		NWI classification: Upland	
				Voo	● No ○		
	natic/hydrologic conditions on the sit		-			(If no, explain in Remarks.) ormal Circumstances" present? Yes	● No ○
			significantly			omai om cametameco procenti	9 110 0
Are V	egetation U , Soil U , or I	Hydrology 🔲 ı	naturally pro	blematic?	(If nee	ded, explain any answers in Remarks.)	
SUMN	MARY OF FINDINGS - Attach	site map show	wing sam	pling point	locations	, transects, important features, e	etc.
	Hydrophytic Vegetation Present?	Yes O No 🖲)				
	Hydric Soil Present?)	Is	the Sam	npled Area		
	Wetland Hydrology Present?	Yes O No •		wi	thin a W	etland? Yes 🔾 No 🖲	
	, 0,	100 0 110 0					
Rem	arks:						
VEGE	TATION - Use scientific nam	es of plants. Li	st all sned	ries in the	nlot		
	Ose selentine nam	cs of plants. Li	ot an spec	ics in the	piot.	Dominance Test worksheet:	
Two	Chunkum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species	
	e Stratum Picea glauca		40	Species: ✓	FACU	That are OBL, FACW, or FAC:	3 (A)
2.			0		TACO	Total Number of Dominant	(5)
3.			0			Species Across All Strata:	(B)
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 5	50.0% (A/B)
5.			0				(**=/
		Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by	ov.
Sap	ling/Shrub Stratum 50% o			of Total Cover:	8	0.01.0	•
						FACW Species 21 x 2 =	0 42
	Picea glauca			✓	FACU	FAC Species 92 x 3 =	42 276
2.	Salix pseudomonticola			✓	FAC	FACU Species 104 x 4 =	416
3. 4.	Callerataria		<u>15</u> 7		FACW FAC	UPL Species 0 x 5 =	0
5.	Salix glauca Salix barclayi		10		FAC		
6.	Betula nana		2	П	FAC	Column Totals: 217 (A)	<u>734</u> (B)
7.	Vaccinium uliginosum		30	✓	FAC	Prevalence Index = B/A =	3.382
8.	Dasiphora fruticosa		10		FAC	Hydrophytic Vegetation Indicators:	
9.	Baciphora iratiooda		0			Dominance Test is > 50%	
10.			0			Prevalence Index is ≤3.0	
		Total Cover:	104			☐ Morphological Adaptations ¹ (Provide s	unnorting data in
Her	b Stratum 50%	of Total Cover:		of Total Cover	20.8	Remarks or on a separate sheet)	apporting data in
1.	Cornus canadensis		_25_	✓	FACU	Problematic Hydrophytic Vegetation 1	(Explain)
2.	Mertensia paniculata		3		FACU	¹ Indicators of hydric soil and wetland hydro	logy must
3.	Chamerion angustifolium		5		FACU	be present, unless disturbed or problematic	
4.	Equisetum palustre		5		FACW	Plot size (radius, or length x width)	_10m
5.	Rubus arcticus (IAM)		15	~	FACU	% Cover of Wetland Bryophytes	10111
6.	Arctagrostis latifolia		1		FACW	(Where applicable)	
7.	Equisetum arvense				FAC	% Bare Ground	0
8.			8		FAC	Total Cover of Bryophytes	_60
9.	Pyrola asarifolia		6		FACU		
10.	Calamagrostis canadensis				FAC	Hydrophytic	
	F00/ -			of Total Covers	14.0	vegetation Present? Yes No •	
	50% (or rotal cover:	20% (or Total Cover	14.6	1.155.111.	
10.	Calamagrostis canadensis	Total Cover:3 Trispi, Poa, Acode	3 73 36.5 20% c		FAC 14.6	Vegetation Present? Yes ○ No ●	

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SOIL Sampling Point: SW13_T192_04

		the depth nee 1atrix	ded to docum	ent the indicator or co	onfirm the abs		ators)		
Depth (inches)	Color (moi		<u></u>	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks
0-2	COIOI (IIIOI	istj	100	Color (Illoist)		Туре	LUC	Hemic Organcis	
2-22			100					Sandy Loam	-
								- Januy Loani	
					-			-	
-	-						-		
¹Type: C=Con	centration. D=	Depletion.		d Matrix ² Locatio				nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for P	roblematio	Hydric So	oils: ³		
Histosol or	Histel (A1)			Alaska Color C	hange (TA	ł) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer	
Hydrogen :	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	s)
☐ Thick Dark	Surface (A12)								
Alaska Gley	yed (A13)							nary indicator of wetland h	ydrology,
Alaska Red				and an appropria	te ianuscap	e position i	nust be pre	esent	
	yed Pores (A15	5)		4 Give details of o	color change	e in Remark	S		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes ○ No •
Depth (inch	ies):							•	
Remarks:									
no hydric soil ir	ndicators								
ino riyane son in	naicator 5								
HYDROLO									
Wetland Hydr	ology Indica								cators (two or more are required)
Wetland Hydr	rology Indicators (any one is							Water Stair	ned Leaves (B9)
Primary Indicat Surface W	rology Indica tors (any one is ater (A1)			Inundation \		_		Water Stain Drainage P	ned Leaves (B9) latterns (B10)
Primary Indicat Surface W High Wate	rology Indicators (any one is dater (A1) er Table (A2)			☐ Inundation \		_		Water Stain Drainage P Oxidized R	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3)
Wetland Hydr Primary Indicat Surface W High Wate Saturation	rology Indicators (any one istater (A1) er Table (A2) or (A3)			Sparsely Veg	getated Cor s (B15)	cave Surfac		Water Stail Drainage P Oxidized R Presence o	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Wetland Hydr Primary Indical Surface W High Wate Saturation Water Mar	rology Indicators (any one is fater (A1) er Table (A2) In (A3) rks (B1)			Sparsely Veg	getated Cor s (B15)	cave Surfac		Water Stain Drainage P Oxidized R	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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