WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydr	oelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12
pplic	ant/Owner: Alaska Energy Au	uthority				Sampling Point: SW12_T52_02
vest	gator(s): CTS, EKJ			Landform (hill	side, terrac	e, hummocks etc.): Hillside
ocal	relief (concave, convex, none):	convex		Slope: 3.5	% / 2.0	° Elevation: 741
ubre	gion: Interior Alaska Mountain	s	Lat.:	62.793073242		Long.: -148.538056638 Datum: WGS84
	ap Unit Name:					NWI classification: Upland
	matic/hydrologic conditions on t	he site typical for this t	ime of vea	r? Yes	No ○	(If no, explain in Remarks.)
	regetation \square , Soil \square			ly disturbed?		lormal Circumstances" present? Yes No
	/egetation , Soil	_	-	roblematic?		eded, explain any answers in Remarks.)
					•	, ,
UM	MARY OF FINDINGS - A	<u> </u>		npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Preser	nt? Yes 💿 No 🤇			41 0	mlad Ama
	Hydric Soil Present?	Yes O No 🤄				pled Area fetland? Yes ○ No ◉
	Wetland Hydrology Present?	Yes O No		Wi	ithin a W	etland? res Uno U
Ren	narks: Slcbe, Betgla is boderlin	a tall in cnote				
1.011	idino. Siche, betgia is bodeliili	e tali ili spots				
EGI	ETATION - Use scientific	names of plants. L	ist all sp	ecies in the	plot.	
			Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Cover		Status	Number of Dominant Species
1.	-		0			That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant
2.			0	. \square		Species Across All Strata:3 (B)
3.			0			Percent of dominant Species
4.			0	. 📙		That Are OBL, FACW, or FAC: 66.7% (A/B)
5.			0	. \square		Prevalence Index worksheet:
		Total Cover				Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum	50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species
1.	Betula glandulosa		50	✓	FAC	FACW Species 20 x 2 = 40
2.	Picea glauca		2	_	FACU	FAC Species <u>161</u> x 3 = <u>483</u>
3.	Vaccinium uliginosum			. _	FAC	FACU Species <u>12.1</u> x 4 = <u>48.40</u>
4.	Vaccinium vitis-idaea		10_	. 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Ledum decumbens				FACW	Column Totals: <u>193.1</u> (A) <u>571.4</u> (B)
6.	Empetrum nigrum				FAC	Prevalence Index = B/A =2.959_
7.	Spiraea stevenii		0.1		FACU	
8.			0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
9.				. 📙		
10.		Total Cover		. 🗀		✓ Prevalence Index is ≤3.0
He	b Stratum_	50% of Total Cover:			36.42	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Cornus canadensis		10	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
	Carrie at um and ratio um				FAC	¹ Indicators of hydric soil and wetland hydrology must
3.						be present, unless disturbed or problematic.
						District (and its or as leastly so width)
						Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes 15
						% Cover of Wetland Bryophytes
				. 📙		% Bare Ground
				. 📙		Total Cover of Bryophytes
			0	. 📙		
10.			0	. \square		Hydrophytic
		Total Cover 50% of Total Cover:		/ (T + 10		Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW12_T52_02

Profile Descripti	ion: (Describe to t	he depth ne	eded to docu	iment the indicator or coi	nfirm the ab	sence of indic	ators)						
Depth		1atrix			lox Featu			_					
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks				
0-1			100					Fibric Organics	7% roots				
1-2	10YR	5/2	100					Sandy Loam	bit of charcoal				
2-5	5Y	2.5/2	100					Sandy Loam	thin layer at bottom is 2.5YR 2.5/3				
5-7	7.5YR	3/3	100					Sandy Loam					
7-9	10YR	4/6	100					Fine Loamy Sand					
9-15	10YR	4/4	90					Fine Loamy Sand	semiangular gravel and cobble				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix													
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³						
Histosol or	r Histel (A1)			Alaska Color Ch		•		Alaska Gleyed Without H	ue 5Y or Redder				
Histic Epip				☐ Alaska Alpine s	•	•		Underlying Layer Other (Explain in Remarks)					
	Sulfide (A4)			☐ Alaska Redox V	vitn 2.5Y	Hue		Other (Explain in Keman	NS)				
Alaska Gle	Surface (A12)							mary indicator of wetland h	nydrology,				
Alaska Red				and an appropriat	e landsca	pe position r	nust be pre	esent					
	yed Pores (A15)		⁴ Give details of co	olor chang	e in Remark	S						
Restrictive Laye	er (if present):												
Type:	. (р,							Hydric Soil Present	? Yes O No •				
Depth (inch	nes):												
Remarks:													
no hydric soil indicators													
	no riyune son mulcators												
HYDROLO	GY												
Wetland Hyd		tors:						Secondary Indi	cators (two or more are required)				
_	tors (any one is		:)					Water Stained Leaves (B9)					
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage I	Patterns (B10)				
High Wate	er Table (A2)			Sparsely Veg	etated Co	ncave Surfac	e (B8)	Oxidized R	thizospheres along Living Roots (C3)				
Saturation	n (A3)			Marl Deposits	(B15)			Presence of	of Reduced Iron (C4)				
Water Ma	rks (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depos	sits (C5)				
Sediment	Deposits (B2)			Dry-Season V	Vater Tab	le (C2)		Stunted or	Stressed Plants (D1)				
Drift Depo	osits (B3)	Other (Explai	n in Rema	ırks)		Geomorph	ic Position (D2)						
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)				
☐ Iron Deposits (B5)								Microtopo	graphic Relief (D4)				
Surface S	oil Cracks (B6)							FAC-neutra	al Test (D5)				
Field Observa	ations:												
Surface Water	r Present?		No 💿	Depth (inche	s):								
Water Table P		Yes C	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	it? Yes ○ No •				
Saturation Pre (includes capi		Yes C	No •	Depth (inche	s):								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
no wetland hyd	drology indicato	rs											
	5,												
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