WETLAND DETERMINATION DATA FORM - Alaska Region

•	/Site: Susitna-Watana Hydroelectric Proje	ct	Boro	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug	-15
	nt/Owner: Alaska Energy Authority					Sampling Point: SW15_T329	9_02
	gator(s): ERT, TXC			,		e, hummocks etc.): Crest	
Local r	elief (concave, convex, none): undulating		Sic	ope: 1.7	_% /1.0 	Elevation:	
Subreg	ion : Interior Alaska Mountains	La	t.:			Long.: Datum: WG	GS84
Soil Ma	p Unit Name:					NWI classification: Upland	
Are V Are V		y ☐ signific y ☐ natural ap showing s	antly dis	sturbed? ematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.)
	Hydrophytic Vegetation Present? Yes			le	the Sam	pled Area	
	Hydric Soil Present? Yes				thin a W		
	Wetland Hydrology Present? Yes				uiiii a vv	etiality 165 o 160 o	
	rks: Plot at summit of small hill. White photo	ants. List all	specie	es in the I	<u>'</u>	Dominance Test worksheet:	
Tre	e Stratum	Absol % Co		Dominant Species?	Indicator Status	Number of Dominant Species	
	Picea glauca		.8	✓	FACU	That are OBL, FACW, or FAC:2	(A)
2.			0			Total Number of Dominant Species Across All Strata: 3	(B)
3.			0				(D)
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7%	(A/B)
5.			0			Duranta and Turker works to the	
6			18 20% of 1	Total Cover:	2.6	Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Co	over: 9	20% 01		3.6	OBL Species 0 x1 = 0	_
1.	Betula glandulosa	<u>_</u> :	25	<u>~</u>	FAC	FACW Species 1 x 2 = 2	_
2.	Vaccinium uliginosum	<u>_</u> :	10	✓	FAC	FACULO Province 45 x 3 = 135	
3.	Vaccinium vitis-idaea		4		FAC	FACU Species 19 x 4 = 76	-
4.	Empetrum nigrum		4		FAC	UPL Species 0 x 5 = 0	_
5.	Rhododendron tomentosum		1		FACW	Column Totals: <u>65</u> (A) <u>213</u>	_ (B)
6.			0			Prevalence Index = B/A = 3,277	
7.			0				
			0			Hydrophytic Vegetation Indicators:	
			0			✓ Dominance Test is > 50%	
10.			0			☐ Prevalence Index is ≤3.0	
	b Stratum 50% of Total C	tal Cover: over:22	14 20% of	Total Cover:	8.8	Morphological Adaptations (Provide supporting d Remarks or on a separate sheet)	data in
	Festuca altaica		2		FAC	Problematic Hydrophytic Vegetation (Explain)	
	Spinulum annotinum		1		FACU	Indicators of hydric soil and wetland hydrology must	
			0			be present, unless disturbed or problematic.	
			0			Plot size (radius, or length x width) <u>10m</u>	
			0			% Cover of Wetland Bryophytes 0	_
			0			(Where applicable)	
			0			% Bare Ground 0	
			0			Total Cover of Bryophytes 95	_
			0				
10.	To		3			Hydrophytic Vegetation	
	10					Present? Yes • No •	

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SOIL Sampling Point: SW15_T329_02

Depth (inches) Color (mo	oist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-1					_			Fibric Organics	Oi
1-2.5								Hermic Organics	Oe
2.5-4 10YR	7/3	95	10YR	2/1	5		M	Silt Loam	E. 10YR 2/1 not redox, but is buried org
4-6.5 5YR	3/3	100						Silt Loam	Bs
6.5-10 10YR	5/4	100						Loam	Bw. strong platy structure.
10-10.5								Sapric Organics	Oab. charrred org from wildfire.
10.5-13.5 7.5YR	4/6							Sandy Loam	Bsb
13.5-15 10YR	5/4	100						Sandy Clay Loam	2BC glacial till.
Type: C=Concentration. D:	=Depletion.	RM=Reduc						innel. M=Matrix	
ydric Soil Indicators:						c Hydric So	oils:	7	
Histosol or Histel (A1)				ka Color Ch		-	L	Alaska Gleyed Withou	t Hue 5Y or Redder
Histic Epipedon (A2)				ka Alpine sv	•	,		Underlying Layer	
Hydrogen Sulfide (A4)			L Alasi	ka Redox W	Vith 2.5Y I	Hue		Other (Explain in Rem	arks)
Thick Dark Surface (A12)		3.0						
Alaska Gleyed (A13)						tic vegetatio pe position r		nary indicator of wetlan esent	d hydrology,
Alaska Redox (A14)						•		350.1.5	
Alaska Gleyed Pores (A1	5)		4 Give o	details of co	olor chang	e in Remark	(S		
strictive Layer (if present):									
, , , ,									nt? Yes O No 💿
ivne:								HVaric Soil Prese	
Type: Depth (inches):								Hydric Soil Prese	iit: fes O NO O
Depth (inches):	erratics in p	olot. Evidend	ce of histor	ric wildfire a	at 10" (bu	ried charcoa	al). Strong		0 in inicative of seasonal frost.
Depth (inches):	erratics in p	olot. Eviden	ce of histor	ric wildfire a	at 10" (bu	ried charcoa	al). Strong		
Depth (inches):	erratics in p	olot. Evidend	ce of histor	ric wildfire a	at 10" (bu	ried charcoa	al). Strong		
Depth (inches): emarks: hydric soil indicators.Two /DROLOGY etland Hydrology Indica	ators:		ce of histor	ric wildfire a	at 10" (bu	ried charcoa	al). Strong	platy structure at 6.5-10	0 in inicative of seasonal frost.
Depth (inches): emarks: hydric soil indicators.Two /DROLOGY etland Hydrology Indicationary Indicators (any one	ators:		ce of histor	ric wildfire a	at 10" (bu	ried charcoa	al). Strong	platy structure at 6.5-10 Secondary In Water S	0 in inicative of seasonal frost. Indicators (two or more are required) Stained Leaves (B9)
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