WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 24-Jun-12		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T17_01		
	gator(s): SLI, LMF	ce, hummocks etc.): Ridgetop					
	elief (concave, convex, none): undulating	O ° Elevation: 1006					
	, <u></u>	Lat:	Slope: 0.0				
_	ion : Southcentral Alaska	Lal	62.796599909	98			
	p Unit Name:			0 0	NWI classification: Upland		
Are V Are V		ignificantl aturally p	ly disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
		the Sam	pled Area				
					Netland? Yes ○ No ●		
	Wetland Hydrology Present? Yes ○ No ●						
	TATION - Use scientific names of plants. Lis	at all spe	Dominant	•	Dominance Test worksheet: Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:3(A)		
2.		0			Total Number of Dominant Species Across All Strata: 8 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 37.5% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:	0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species 0 x 1 = 0		
1.	Dryas octopetala	10	✓	UPL	FACW Species 2 x 2 = 4		
2.	Rhododendron lapponicum var. parvifolium	7		UPL	FAC Species 14 x 3 = 42		
3.	Diapensia lapponica	5		UPL	FACU Species 14 x 4 = 56		
4.	Vaccinium uliginosum	3	. П	FAC	UPL Species 23 x 5 = 115		
5.	Salix arctica	5	✓	FACU	Column Totals: <u>53</u> (A) <u>217</u> (B)		
6.	Arctostaphylos alpina	5	•	FACU			
	Dasiphora fruticosa	2		FAC	Prevalence Index = B/A = 4.094		
8.	Empetrum nigrum	1		FAC	Hydrophytic Vegetation Indicators:		
9.		0			Dominance Test is > 50%		
10.		0			Prevalence Index is ≤3.0		
Her	Total Cover: b Stratum 50% of Total Cover:		% of Total Cove	r: 7.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Tofieldia coccinea	3	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Anemone narcissiflora			FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Bistorta plumosa			FACU	be present, unless disturbed or problematic.		
4.	Potentilla biflora			UPL	Plot size (radius, or length x width) 10m		
5.	Carex atrofusca	2	✓	FACW	% Cover of Wetland Bryophytes		
6.	Anthoxanthum monticola ssp. alpinum	1		FACU	(Where applicable)		
7.	Thalictrum alpinum	1	. 📙	FAC	% Bare Ground <u>20</u>		
8.	Carex fuliginosa	2		FAC	Total Cover of Bryophytes65		
9.	Carex scirpoidea	1		FACU			
10.	Festuca altaica	1 15	. \square	FAC	Hydrophytic		
	Total Cover: 50% of Total Cover:	:3	Vegetation Present? Yes ○ No ●				
Darr					•		
Rem	arks: 20% lichen cover. graminoid veg pressed for co	onfirmatio	n.				

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SOIL Sampling Point: SW12_T17_01

Profile Descripti	on: (Describe to t	the denth no	eeded to docu	ment the inc	licator or con	firm the ab	sence of indic	ators)	•			
		Matrix		mone and		ox Featu		ators,				
Depth (inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1	7.5YR	2.5/1	60						Silty Clay	40% roots		
1-7	7.5YR	2.5/1	70						Silty Clay	30% coarse gravels and cobbles to 5in		
7-13	10YR	3/1	80	7.5YR	4/6	20	С		Sandy Clay			
13-18	10YR	3/4	60						Sandy Clay Loam	f to c sand with 40% coarse gravels		
										1 60 6 56116 11611 1575 515155 515155		
-								-				
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ed Matrix	² Location:	: PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:	_	_	Indicate	ors for Pro	blematic	c Hydric So	oils:				
Histosol or	Histel (A1)			Alask	ka Color Cha	ange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alask	ka Alpine sv	vales (TA5	5)	_	Underlying Layer			
	Sulfide (A4)			Alask	ka Redox W	ith 2.5Y F	Hue	L	Other (Explain in Remark	(S)		
Thick Dark	Surface (A12))		2.2								
Alaska Gle	yed (A13)						tic vegetatio pe position r		mary indicator of wetland hesent	ıydrology,		
Alaska Red	dox (A14)					•		•	CSCITE			
Alaska Gle	yed Pores (A15	;)		4 Give a	etails of co	lor change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):								.,			
Remarks:								1				
no hydric soil in	ndicators											
110 11741.10 30	idicators											
LIV/DD01-0	OV											
HYDROLO		•							C			
Wetland Hydi			17							cators (two or more are required)		
Primary Indica		5 Sufficient	ξ)		-1-1:-m \/i.	". I A	*-! T	(07)	Water Stained Leaves (B9)			
Surface W	. ,						erial Image	, , ,				
	er Table (A2)						ncave Surfac	ce (B8)				
Saturation					ırl Deposits	. ,	(01)			of Reduced Iron (C4)		
Water Mai					drogen Sulf				☐ Salt Depos			
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Oti	her (Explain	ı in Rema	ırks)			ic Position (D2)		
	or Crust (B4)									quitard (D3)		
Iron Depo										graphic Relief (D4)		
	oil Cracks (B6)							1	☐ FAC-neutra	al Test (D5)		
Field Observa		·/ () N= (a)	Б.		_						
Surface Water	Present?		No 💿	De	epth (inches	;):						
Water Table P		Yes 🤇	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	it? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No •	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Downster.												
Remarks:												
no wetland hyd	Irology indicato	ors										

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