WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 06-Aug-12							
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T16_02							
		ce, hummocks etc.): Mountainslope										
Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Mountainslope Local relief (concave, convex, none): undulating Slope: 0.0 % / 13.0 ° Elevation: 1220												
	gion: Interior Alaska Mountains		63.429856573									
		Lai	03.429630373	00	Long.:148.588111637							
	ap Unit Name:			<u> </u>	NWI classification: Upland							
Are \	/egetation □ , Soil □ , or Hydrology □ I	significantly naturally pr wing sam	y disturbed? oblematic?	(If nee	No Ormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)							
	Hydrophytic Vegetation Present? Yes No No	the Sam	unled Area									
	Hydric Soil Present? Yes No •		Is the Sampled Area within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes O No •)	WI	uiiii a vv	etiality 155 5 No 5							
Ren	narks: solifluction slope											
	ETATION - Use scientific names of plants. Li	st all spe	Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC: 0 (A)							
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)							
3.					Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 0.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover				Total % Cover of: Multiply by:							
Saj	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0							
1	Cassiope tetragona	10	✓	FACU	FACW Species 0 x 2 = 0							
	Salix rotundifolia			FAC	FAC Species 12 x 3 = 36							
3.	Diapensia lapponica			UPL	FACU Species 37 x 4 = 148							
4.	Loiseleuria procumbens	7	✓	FACU	UPL Species 3 x 5 = 15							
5.	Vaccinium vitis-idaea			FAC	Column Totals: <u>52</u> (A) <u>199</u> (B)							
6.		_										
7.		_			Prevalence Index = B/A = 3.827							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
He	Total Cover: 50% of Total Cover:		6 of Total Cover	: 4.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Trisetum spicatum	2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Carex microchaeta			FAC	¹ Indicators of hydric soil and wetland hydrology must							
3.	Luzula arcuata	10	✓	FACU	be present, unless disturbed or problematic.							
4.	Artemisia norvegica		✓	FACU	Plot size (radius, or length x width)							
5.	Anthoxanthum monticola ssp. alpinum	2		FACU	% Cover of Wetland Bryophytes							
6.	Bistorta plumosa	1		FACU	(Where applicable)							
7.	Campanula lasiocarpa	0.1		UPL	% Bare Ground <u>20</u>							
8.	Gentiana glauca	0.1		FAC	Total Cover of Bryophytes							
9.	Antennaria monocephala			UPL								
					Hydrophytic Vegetation							
10.					VACIOTATION							
10.	Total Cover: 50% of Total Cover:		of Total Cover	5.64	Present? Yes O No •							

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SOIL Sampling Point: SW12_T16_02

Profile Descripti		he depth nee	ded to docume	nt the indicator or co	nfirm the ab		ators)				
Depth (inches)							. 2		Remarks		
0-6	Color (moi	st) 3/3	80	Color (moist)	<u>%</u>	Type ¹	Loc ²	Silt Loam	20% angular gravel and cobbles		
									. —————————————————————————————————————		
6-18			60		-			Sand	40% angular gravels and cobbles		
					_						
								-			
								-			
¹Type: C=Cor	ncentration. D=	Depletion. I		Matrix ² Location				annel. M=Matrix			
Hydric Soil I	ndicators:		1	Indicators for Pr	oblemati	Hydric So	oils: ³				
Histosol or	Histel (A1)		[Alaska Color C	hange (TA	1) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		[Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		[Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remarl	(S)		
☐ Thick Dark	Surface (A12)										
Alaska Gle								mary indicator of wetland h	nydrology,		
Alaska Rec				and an appropria	te iandscap	e position r	nust be pre	esent			
	yed Pores (A15)		4 Give details of o	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
Remarks:							I				
solifluction slop	o, no nyane so.										
HYDROLO	GY										
Wetland Hydi		ors:						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 Imagei	ry (B7)				
☐ High Wate	Sparsely Veg		_			hizospheres along Living Roots (C3)					
Saturation (A3)							,	Presence of	of Reduced Iron (C4)		
☐ Water Mai	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	sits (C5)		
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla				Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)					•		Shallow Ad	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	itions:										
Surface Water	Present?	Yes \bigcirc	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	<i>ec).</i>		Wetla	nd Hydrology Presen	it? Yes O No 💿		
Saturation Pre					•			, , , , , , , , , , , , , , , , , , , ,			
(includes capil		Yes O	No 🔍	Depth (inche	es):						
Describe Record	ded Data (strea	ım gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Domarica											
Remarks:	المعالمة المعامرة										
no wetland hydrology indicators											

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