WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	rough Sampling Date: 06-Aug-13				
Applic	ant/Owner: Alaska Energy Authority	-	Sampling Point: SW13_T174_01						
	gator(s): WAD, RWM	lside, terrac	e, hummocks etc.): Floodplain						
	relief (concave, convex, none): flat		Slope:	% / 15.	- ·				
	gion: Interior Alaska Mountains	l at :	· · —						
		Lat	03.304924348						
	ap Unit Name:		- 1/	No ○	NWI classification: Upland				
Are \		significantl naturally p	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ided, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ided, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes O No 🖲)	_						
	Hydric Soil Present? Yes No •)	Is the Sampled Area						
	Wetland Hydrology Present? Yes No •)	W	within a Wetland? Yes ○ No ●					
Rem	arks: ETATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.					
	·	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tre	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)				
1.		0							
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)				
3.		0			Percent of dominant Species				
4.		0			That Are OBL, FACW, or FAC: 50.0% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Covers				Total % Cover of: Multiply by:				
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 0 x 1 = 0				
1	Salix alaxensis	65	✓	FAC	FACW Species 15 x 2 = 30				
2.	Salix alaxerisis Salix barclayi	-10		FAC	FAC Species 99 x 3 = 297				
3.	Salix pulchra			FACW	FACU Species 22 x 4 = 88				
4.	Linnaea borealis			FACU	UPL Species <u>15</u> x 5 = <u>75</u>				
5.					Column Totals: <u>151</u> (A) <u>490</u> (B)				
6.		•							
7.		0			Prevalence Index = B/A = 3.245				
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:		% of Total Cove	r: <u>16.6</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Calamagrostis canadensis	15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Boykinia richardsonii	15	✓	UPL	¹ Indicators of hydric soil and wetland hydrology must				
3.	Artemisia tilesii	10	✓	FACU	be present, unless disturbed or problematic.				
4.	Mertensia paniculata			FACU	Plot size (radius, or length x width)				
5.	Petasites frigidus			FACW	% Cover of Wetland Bryophytes				
6.	Festuca altaica	5		FAC	(Where applicable)				
7.	Sanguisorba canadensis	5		FACW	% Bare Ground				
8.	Rhodiola integrifolia			FAC	Total Cover of Bryophytes				
9.	Chamaenerion angustifolium	2		FACU					
Э.	Dubus setions (IAM)	_ 2		FACU	Hydrophytic				
10.	Rubus arcticus (IAM)								
	Total Cover:		6 of Total Cover	13.6	Vegetation Present? Yes ○ No ●				

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SOIL Sampling Point: SW13_T174_01

	•	the depth nee	eded to docum	ent the indicator or co	nfirm the ab		ators)					
Depth (inches)	Color (mo		<u></u> %	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks			
0-3	COIOI (IIIC)ist)	100	Color (Illoist)	- 70	Туре	LUC	Fibric Organics				
3-5	10YR	3/2	100					Sand	river cobbles below.			
				-	-			Juliu	river cobbies below.			
							-					
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	C Hydric So	oils: ³					
Histosol or	Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine s	ne swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue		Other (Explain in Remark	(S)			
☐ Thick Dark	Surface (A12)		_								
Alaska Gle	yed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)			and an appropria	te iaiiusca _k	e position i	nust be pre	esent				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):											
Remarks:												
no hydric soil in												
HYDROLO	GY											
Wetland Hydi		itors:						Secondary Indi	cators (two or more are required)			
Primary Indica								Water Stained Leaves (B9)				
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager						
High Water Table (A2)				Sparsely Veg		-			hizospheres along Living Roots (C3)			
Saturation	Marl Deposits			,	Presence o	of Reduced Iron (C4)						
☐ Water Mai	☐ Water Marks (B1) ☐ Hydrogen Suli							☐ Salt Depos	its (C5)			
Sediment Deposits (B2) Dry-Season Water Table (C2)								Stunted or	Stressed Plants (D1)			
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)			
Algal Mat	or Crust (B4)					•		Shallow Ac	juitard (D3)			
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)			
Surface So	oil Cracks (B6)							FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Water	Present?	Yes \bigcirc	No 💿	Depth (inche	es):							
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	-c).		Wetla	nd Hydrology Presen	t? Yes O No 💿			
Saturation Pre					,			, , , , , , , , , , , , , , , , , , , ,				
(includes capil		Yes O	No 🔍	Depth (inche	es):							
Describe Record	ded Data (stre	am gauge, i	monitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:					
Describe.												
	Remarks:											
no hydrology indicators observed. site located on active floodplain of subalpine stream.												

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