WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/	City:	Denali Bo	rough Sampling Date: 07-Aug-13			
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T165_03							
	gator(s): CTS, AMD	side, terrac	e, hummocks etc.): Flat						
	relief (concave, convex, none): flat	`	% / 0.8						
		L at :	Slope: 63.3894	174520					
	gion : Interior Alaska Mountains	Lai	+7 1530						
	ap Unit Name:			/	<u> </u>	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , Soil , or Hydrology . MARY OF FINDINGS - Attach site map sho	significal naturally owing sa	ntly disturb problema	ed? tic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No	the Sam	pled Area						
	Hydric Soil Present? Yes No			within a Wetland? Yes ○ No •					
Rem	Wetland Hydrology Present? Yes O No	<u>•</u>)		***	u •••	Charles .			
	ETATION - Use scientific names of plants. I	Absolu	te Domi	nant	olot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1re	Piece slaves	<u>% Cov</u>			FACU	That are OBL, FACW, or FAC:(A)			
	Picea glauca					Total Number of Dominant			
2. 3.	Populus balsamifera		— .		FACU	Species Across All Strata: 7 (B)			
3. 4.		$- \frac{0}{0}$	_			Percent of dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)			
5.		0	_						
J.	Total Cove		_			Prevalence Index worksheet:			
621	oling/Shrub Stratum 50% of Total Cover: _		— 0% of Total	Cover:	10	Total % Cover of: Multiply by:			
Sap	Sing/Shrub Stratum 30% of Total Cover.		770 OI TOLAI		10	OBL Species 0 x 1 = 0			
1.	Populus balsamifera	2			FACU	FACW Species 15 x 2 = 30			
2.	Picea glauca	_			FACU	FAC Species 122 x 3 = 366			
3.	Salix barclayi	2!			FAC	FACU Species 194 x 4 = 776			
4.	Salix alaxensis	1			FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Shepherdia canadensis	3!		✓	FACU	Column Totals: <u>331</u> (A) <u>1172</u> (B)			
6.	Salix pseudomonticola				FAC	Prevalence Index = B/A = 3.541			
7.	Salix richardsonii	5	_		FACW				
8.	Vaccinium uliginosum	40	_	✓	FAC	Hydrophytic Vegetation Indicators:			
9.	Vaccinium vitis-idaea		_ ,		FAC	☐ Dominance Test is > 50%			
10.		5	_		FAC	☐ Prevalence Index is ≤3.0			
Hei	Total Cover rb Stratum 50% of Total Cover:		0% of Tota		28.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus canadensis				FACU	Problematic Hydrophytic Vegetation (Explain)			
2.	Hedysarum alpinum	5	_ ,		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Mertensia paniculata				FACU	be present, unless disturbed or problematic.			
4.	Solidago multiradiata				FACU	Plot size (radius, or length x width) 10m			
5.	Chamaenerion angustifolium				FACU	% Cover of Wetland Bryophytes 60			
6.	Sanguisorba officinalis				FACW	(Where applicable)			
7.	Eurybia sibirica	$-\frac{1}{40}$	_		FACU FACU	% Bare Ground 30			
8.	Rubus arcticus (IAM)		- :		FAC	Total Cover of Bryophytes			
9.	Lupinus polyphyllus Anemone richardsonii	- 15 15	_	✓	FAC				
10.	Total Cove		_	FAC FAC		Hydrophytic Vegetation			
	50% of Total Cover:		 0% of Total	Cover:	27.6	Present? Yes No •			

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SOIL Sampling Point: SW13_T165_03

									7. cmc. 31113_1103_03		
Profile Descripti		the depth ne Matrix	eded to docu	ment the indicator or co	onfirm the ab		cators)				
Depth (inches)							_Loc_2	Texture	Remarks		
0-2	Color (mo	ist)	<u>%</u> 100	Color (moist)		Type ¹	LOC	Hemic Organics	KelitaiRS		
	2 FV	4/2									
2-13	2.5Y	4/2	100					Loam			
13-20	2.5Y	3/2	100					Sandy Loam	Lots of gravel and cobbles		
	-							-			
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	ic Hydric So	oils:				
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remark	(S)		
	Surface (A12)									
Alaska Gle	-	,						nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te lällusca	pe position i	must be pre	esent			
Alaska Gle	yed Pores (A1	5)		⁴ Give details of o	olor chang	je in Remark	cs				
Restrictive Laye	er (if nresent):										
Type:	or (ii preserie).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							Hydric Son i resent	: 165 - 110 -		
, ,											
Remarks:	Part one										
no hydic soil ind	alcators										
HYDROLO	GY										
Wetland Hydi	rology Indica	itors:						Secondary Indi	cators (two or more are required)		
Primary Indica		is sufficient)						ned Leaves (B9)		
Surface W	/ater (A1)			☐ Inundation V	/isible on <i>F</i>	Aerial Image	ry (B7)	(B7) Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Veg	jetated Co	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	Saturation (A3)				s (B15)			Presence o	of Reduced Iron (C4)		
Water Ma	Water Marks (B1)				ılfide Odor	(C1)		Salt Depos	its (C5)		
	Deposits (B2)	Dry-Season \	Water Tab	ıle (C2)		Stunted or	Stressed Plants (D1)				
☐ Drift Depo	. ,			Other (Expla	in in Rema	arks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutra	al Test (D5)		
Field Observa											
Surface Water	r Present?		No 💿	Depth (inche	es):						
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	it? Yes ○ No •		
Saturation Pre		Yes O	No •	Depth (inche	-c)·						
(includes capi											
Describe Recor	ded Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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