WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	City: Denali Borough Sampling Date: 08-Aug-13				
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T146_07					
	gator(s): SLI, EAC	Landform (hill	hillside, terrace, hummocks etc.): Footslope					
	elief (concave, convex, none): flat		Slope: 8.7 % / 5.0 ° Elevation: 680					
	· <u> </u>							
_	ion : Interior Alaska Mountains	Lat	33.384001688	35	Long.:148.75659772			
	p Unit Name:			<u> </u>	NWI classification: PSS1B			
Are V Are V		ignificantly naturally proving sam	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
		Is	Is the Sampled Area					
			within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes ● No ○							
	arks: see sw13-t146-v06 for upslope fnwws non-wetle		cies in the	•	Dominance Test worksheet:			
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species			
1.	Picea glauca	10	✓	FACU	That are OBL, FACW, or FAC:5(A)			
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:	10			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species $0 \times 1 = 0$			
1.	Picea glauca	3		FACU	FACW Species 5.1 x 2 = 10.2			
2.	Datula alamahulana		<u> </u>	FAC	FAC Species 83.3 x 3 = 249.9			
	Salix barclayi	5		FAC	FACU Species 13 x 4 = 52			
4.	Dasiphora fruticosa	5		FAC	UPL Species 0 x 5 = 0			
5.	Vaccinium uliginosum	7		FAC	Column Totals: 101.4 (A) 312.1 (B)			
6.	Salix reticulata	15	✓	FAC				
	Ledum groenlandicum	3		FAC	Prevalence Index = B/A = 3.078			
8.	Vaccinium vitis-idaea	5		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 Cover	: 13.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Rumex arcticus	_ 7	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
2.	Petasites frigidus	5	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must			
3.	Equisetum arvense	10	✓	FAC	be present, unless disturbed or problematic.			
4.	Cornus suecica	0.1		FAC	Plot size (radius, or length x width)			
5.	Arctagrostis latifolia	0.1		FACW	% Cover of Wetland Bryophytes			
6.	Saussurea angustifolia			FAC	(Where applicable)			
7.	Tephroseris atropurpurea			FAC	% Bare Ground7			
8.	Carex bigelowii			FAC	Total Cover of Bryophytes <u>85</u>			
9.								
10.					Hydrophytic			
L	Total Cover: 50% of Total Cover: <u>1</u>		of Total Cover:	4.68	Vegetation Present? Yes ● No ○			
Rem	arks: trace poa							

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SOIL Sampling Point: SW13_T146_07

Profile Descript	ion: (Describe to	the depth ne	eeded to docur	ment the indicator or co	nfirm the ab	sence of indic	ators)	<u>*</u> -	10mc 51115_1140_6/			
Depth		Matrix			dox Feat		-					
(inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-10	5YR	2.5/2	100					Fibric Organics	p-			
10-14	5YR	2.5/1	100					Hemic Organics				
14-26	5Y	2.5/1	100					Coarse Loamy Sand	60% gravels			
									<u> </u>			
-	-				-							
								-				
17		Danistian.	DM Dadiia		- DI D-			and M. Mahii.				
- Type: C=Col	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Location		_		nnei. M=Matrix				
Hydric Soil I				Indicators for Pi		4	oils:	1				
Histosol or Histel (A1) Alaska Color Change (TA4)								☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
Histic Epip				Alaska Alpine s	•	•		Other (Explain in Remarks)				
l — ' · ·	Sulfide (A4)	2)		☐ Alaska Redox (With 2.5Y	nue		Other (Explain in Remain	3)			
l —	k Surface (A12)	2)		³ One indicator of	hydrophy	tic vegetatio	n, one prim	nary indicator of wetland h	ydrology,			
Alaska Gle	-			and an appropria	te landsca	pe position r	must be pre	esent				
	eyed Pores (Al	15)		4 Give details of c	olor chang	je in Remark	S					
Restrictive Layer Type: acti		•						Hydric Soil Present	? Yes • No •			
Depth (incl	•							riyuric 3011 Fresent	: 165 0 110 0			
Remarks:	,											
Kemarks.												
HYDROLO												
Wetland Hyd Primary Indica			-1						cators (two or more are requ	ired)		
		is sumciem	L)	Tanadakian N	(:=: = = ===	Andal Tarana	(DZ)	Water Stained Leaves (B9)				
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5)				
✓ High Water Table (A2)✓ Saturation (A3)				☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)								
Water Marks (B1)				Hydrogen Sulfide Odor (C1)								
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)			
Drift Deposits (B3)				Other (Explain in Remarks)					ic Position (D2)			
	or Crust (B4)			Outer (Explu	iii iii recine	ii koj			uitard (D3)			
Iron Depo							raphic Relief (D4)					
= '	oil Cracks (B6)						FAC-neutra				
Field Observa		<u> </u>										
Surface Wate	r Present?	Yes C	No 💿	Depth (inche	es):							
Water Table F	Present?	Yes 🤄	No O	Depth (inche	es): 6		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾			
Saturation Pro	esent?	Voc (No O	, ,	•							
(includes capi	llary fringe)	165 ©	NO C	Depth (inche	es): 9							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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