WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	rough Sampling Date: 05-Aug-13							
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T201_03							
Investigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Kame											
Local relief (concave, convex, none): convex		Slope: 0.0									
Subregion : Interior Alaska Mountains	l at ·	63.366475105		Long.: -148.942061901 Datum: WGS84							
	Lat	03.300473103									
Soil Map Unit Name:		2 V	No ○	NWI classification: Upland							
Are Vegetation , Soil , or Hydrology na	gnificantl aturally p	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No		Is	the Sam	he Sampled Area							
Hydric Soil Present? Yes No			within a Wetland? Yes ○ No ●								
Wetland Hydrology Present? Yes O No •				otidiid i							
Remarks: kame (?) - dry betgla-lichen community /EGETATION - Use scientific names of plants. List all species in the plot.											
	Absolute % Cover		Indicator Status	Dominance Test worksheet: Number of Dominant Species							
Tree Stratum 1. Picea glauca	3	Speciesr	FACU	That are OBL, FACW, or FAC:3(A)							
	0	. <u>V</u>		Total Number of Dominant							
3	0			Species Across All Strata: 4 (B)							
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.	0			Prevalence Index worksheet:							
Total Cover:	3			Total % Cover of: Multiply by:							
Sapling/Shrub Stratum 50% of Total Cover: 1.	.5 20%	of Total Cover:	0.6	OBL Species $0 \times 1 = 0$							
1. Picea glauca	5		FACU	FACW Species 16 x 2 = 32							
2 Retula glandulosa			FAC	FAC Species 111.1 x 3 = 333.3							
3 Vaccinium uliginosum	30	· •	FAC	FACU Species 8.1 x 4 = 32.40							
vaccilium diiginosum Empetrum nigrum	20		FAC	UPL Species 0 x 5 = 0							
5. Vaccinium vitis-idaea	3		FAC	Column Totals: <u>135.2</u> (A) <u>397.7</u> (B)							
6. Salix pulchra	1		FACW								
7. Ledum decumbens	15		FACW	Prevalence Index = B/A = <u>2.942</u>							
8.	0			Hydrophytic Vegetation Indicators:							
9.	0			✓ Dominance Test is > 50%							
10	0	. \square		✓ Prevalence Index is ≤3.0							
Herb Stratum 50% of Total Cover: 66	25.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)									
Cornus suecica	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)							
Carex bigelowii	3	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must							
3. Bistorta plumosa	0.1		FACU	be present, unless disturbed or problematic.							
4	0			Plot size (radius, or length x width) 10m							
5	0			% Cover of Wetland Bryophytes							
6				(Where applicable)							
7	0			% Bare Ground							
8.	0			Total Cover of Bryophytes							
9.											
10Total Cover:	Hydrophytic Vegetation										
50% of Total Cover: 1.	3.2 6 20%	of Total Cover:	0.64	Present? Yes • No O							
30/001 Total Cover. 1.											

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SOIL Sampling Point: SW13_T201_03

Donatila Danamintia	(December to						-+		110mc 31113_1231_03		
	n: (Describe to	the depth r Matrix	eeded to doc	ument the indicator or co Re	nfirm the at dox Featu		ators)				
Depth (inches)	Color (m		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-2	5YR	2.5/1	100					Silt Loam	some organic content		
2-4	7.5YR	4/2	100					Fine Sandy Loam	eluviation zone, broken horizon.		
4-8		3/2	100					Fine Sandy Loam	spodic horizon, wavy bound w H4		
8-14	2.5Y	5/3						Fine Sandy Clay Loam	speake nonzony many sound with		
	2.51	3/3						Time Sanay Slay Esam			
			·								
¹ Type: C=Con	centration. D	=Depletion	n. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pr	oblemati	c Hydric So	oils:				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remark	(S)		
	Surface (A12	2)		³ One indicator of	hvdronhv	tic vegetatio	n one nrin	nary indicator of wetland h	nydrology		
Alaska Gley				and an appropria	te landsca	pe position r	nust be pre	esent	iyal ology,		
Alaska Red	` '	· - \		4 Give details of c	olor chang	e in Remark	S				
Alaska Gley	ed Pores (A	15)									
Restrictive Laye	r (if present)	:									
Type:	\-							Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
gravels through	out. no hydri	c soil indica	ators.								
HYDROLO	ЭΥ										
Wetland Hydr	ology Indic	ators:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one	is sufficier	nt)					` '			
Surface W	ater (A1)			Inundation V	isible on A	Aerial Image	ry (B7)				
	r Table (A2)			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	-			Marl Deposit	. ,				of Reduced Iron (C4)		
Water Mar				Hydrogen Su				☐ Salt Depos			
	Deposits (B2))		☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depos		,							graphic Relief (D4)		
Field Observa	il Cracks (B6)					1	☐ FAC-neutra	al Test (D5)		
Surface Water		Yes	No ●	Depth (inche	oc).						
			No •	, ,	•		Wotla	nd Hudrologu Drocon	t? Yes O No •		
Water Table Pr				Depth (inche	es):		wetiai	nd Hydrology Presen	t? Yes U NO S		
Saturation Pres (includes capill		Yes	○ No •	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											

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