WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Denali Borough Sampling Date: 01-Aug Applicant/Owner: Alaska Energy Authority Sampling Point: Sw13_T145 Investigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Hillside Local relief (concave, convex, none): hummocky Slope: 5.2 % / 3.0 elevation: 740	_07			
Investigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Hillside				
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Subregion: Interior Alaska Mountains Lat.: 63.400964618 Long.: -148.648083091 Datum: WC	 3S84			
	7004			
Soil Map Unit Name: NWI classification: PSS1B Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no. explain in Remarks.)				
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.)			
Hydrophytic Vegetation Present? Yes No Sign No				
Hydric Soil Present? Tes Soil No Soil Present? Yes No Soil Present? Yes No Soil Present?				
Wetland Hydrology Present? Yes No Within a Wetland?				
VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Dominance Test worksheet:				
Tree Stratum	(4)			
1. Picea glauca 7 FACU That are OBL, FACW, or FAC: 6	(A)			
2. Picea mariana 5 FACW Species Across All Strata: 7	(B)			
3. Percent of dominant Species				
4. 0 That Are OBL, FACW, or FAC: 85.7%	(A/B)			
5. Prevalence Index worksheet:				
Total Cover:12 Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover: 6 20% of Total Cover: 2.4 OBL Species 0 x 1 = 0				
1. Picea mariana 10 ✓ FACW Species 30 x 2 = 60	_			
2. Picea glauca 5 FAC Species 45 x 3 = 135	_			
3. Salix pulchra 7 ✓ FACU Species 12 x 4 = 48	_			
4. Salix reticulata 2 FAC UPL Species 0 x 5 = 0	_			
5. Vaccinium uliginosum 5 FAC Column Totals: 87 (A) 243	(B)			
6. Salix richardsonii 5 FACW	. (-,			
7. Ledum decumbens 2 FACW Prevalence Index = B/A = 2.793				
8. Ledum groenlandicum 3 FAC Hydrophytic Vegetation Indicators:				
9. Arctostaphylos rubra 10 FAC Dominance Test is > 50%				
10. Empetrum nigrum 3				
Total Cover: 52 Morphological Adaptations ¹ (Provide supporting of Remarks or on a separate sheet)	ata in			
1. Petasites frigidus 1 FACW Problematic Hydrophytic Vegetation (Explain)				
2. Equisetum arvense 2 FAC 1 Indicators of hydric soil and wetland hydrology must				
3. Calamagrostis canadensis 5 FAC be present, unless disturbed or problematic.				
4. Carex bigelowii 15 FAC Plot size (radius, or length x width) 10m				
5 % Cover of Wetland Bryophytes	_			
6 (Where applicable)	_			
7				
8 O Total Cover of Bryophytes 90	_			
9				
10 O Hydrophytic Total Cover: 23 Vegetation				
50% of Total Cover: 11.5 20% of Total Cover: 4.6 Present? Yes • No				
Remarks: 1% vacvit. trace vacoxy, pyrola sp,				

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SOIL Sampling Point: SW13 T145 07

	tion: (Describe to t	he depth ne	eded to docum	ent the inc	licator or conf	irm the ab	sence of indic	ators)		
Depth		1atrix				x Featu			_	
(inches)	Color (moi	st)	%	Color (m	ioist)	%	Type ¹	_ Loc _2	Texture	Remarks
0-6	7.5YR	2.5/1	100						Fibric Organics	
6-12	5YR	2.5/1	100						Hemic Organics	
12-15	10G	4/1	75	10R	4/6	25	С	PL	Silty Clay	
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	d Matrix	² Location:	PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil 1	Indicators:				ors for Pro		4	oils: ³		
Histosol o	or Histel (A1)			Alas	ka Color Cha	nge (TA	1)4		Alaska Gleyed Without Hu	e 5Y or Redder
✓ Histic Epi	pedon (A2)				ka Alpine sw	•	•		Underlying Layer	
Hydrogen	Sulfide (A4)			Alas	ka Redox W	th 2.5Y F	lue		Other (Explain in Remarks)
	k Surface (A12)			3 One is	adicator of h	···drophyt	is vegetatio	- one prin	many indicator of wetland by	dualagy
	eyed (A13)				appropriate				nary indicator of wetland hy esent	arology,
✓ Alaska Re	. ,			4 Cive	letails of col	or change	n in Domark	_		
☐ Alaska Gl	eyed Pores (A15	5)		· Give c	letalis or cor	Or Criariy	t III Neman	5		
Restrictive Lay	er (if present):	_	_		_		_			
Type: silty	y clay, active lay	er							Hydric Soil Present?	Yes No
Depth (inc	hes): 12, 15									
Remarks:										
Saturation at 1	10 inches.									
HYDROLO	OGY									
HYDROLC		tors:							Secondary Indica	ators (two or more are required)
Wetland Hyd	OGY Irology Indicatators (any one is)							ators (two or more are required)_ ed Leaves (B9)
Wetland Hyd	Irology Indica)		undation Vis	ible on A	erial Imager	·v (B7)	Water Stain	
Primary Indicates Surface V	Irology Indicatators (any one is)		undation Vis		_		Water Stain Drainage Pa	ed Leaves (B9)
Primary Indicates Surface V	Irology Indicar ators (any one is Water (A1) ter Table (A2))	☐ Sp		tated Cor	_		Water Stain Drainage Pa Oxidized Rh	ed Leaves (B9) tterns (B10)
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