WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	rough Sampling Date: 31-Jul-13			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T205_02			
	gator(s): SLI, EAC		Landform (hill	side, terrac				
-	elief (concave, convex, none): hummocky		Slope: 1.7		- ·			
		l ot :	· · —					
_	ion : Interior Alaska Mountains	Lat	63.369942069	<u> </u>				
	p Unit Name:				Percent of dominant Species Across All Strata: Total Number of Dominant Species Across All Strata Are OBL, FACW, or FAC: Total % Cover of: Total % Cover of: Total % Cover of: Total % Cover of: OBL Species Total % Species That Are OBL Species That OBL Species FACW Species FACW Species FACU Species Total Species Total Species Total Species Total Species Total % Cover of: OBL Species FACU Species Total % Cover of: OBL Species Total % Cover of:			
Are V		significantl naturally p	ly disturbed? roblematic?	(If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No)	la la	the Com	mlad Avaa			
	Hydric Soil Present? Yes ● No C)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No)	WI	tnin a w	etiand? Tes © NO C			
Rema	arks: Wetland bound at slope break. pronounced mic	rotopo in t	this community	indication	s of seasonal flooding (iron floc)			
	Wedana boana at slope break, pronounced mic	лосоро пт	uns community	, maicación	of seasonal nooding (non noo).			
VEGE	TATION -Use scientific names of plants. Li	ist all spe	ecies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree	Stratum	% Cover	Species?	Status				
1.		0						
2.		0	. 📙					
3.		0	. 📙					
4.		0	. 📙		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	. \square		Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species x 1 =			
1.	Picea glauca	7		FACU	FACW Species <u>26</u> x 2 = <u>52</u>			
2.	Betula glandulosa	10	✓	FAC	FAC Species <u>35.2</u> x 3 = <u>105.6</u>			
3.	Salix pulchra	25	✓	FACW	FACU Species 7 x 4 =28			
4.	Vaccinium uliginosum	5		FAC	UPL Species0 x 5 =0			
5.	Salix reticulata	0.1	. 📙	FAC	Column Totals:75.2 (A)192.6 (B)			
6.	Empetrum nigrum	3	. 📙	FAC	Prevalence Index = R/A = 2 561			
7.	Andromeda polifolia (IAM)	1	. 📙	OBL	Trevalence index = D/A =			
	Vaccinium oxycoccos	_1	. 📙	OBL	Hydrophytic Vegetation Indicators:			
		0						
10.		0	. \square					
Herl	Total Cover 50% of Total Cover:			: 10.42	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
-		7	✓	FAC	, ,			
	Carex bigelowii		· •	FAC				
	Rubus chamaemorus			FACW	be present, unless disturbed or problematic.			
	Equisetum arvense	0.1		FAC				
5.	Comarum palustre		✓	OBL	Plot size (radius, or length x width)			
6.					% Cover of Wetland Bryophytes (Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes			
		0			Hydrophytic			
	Total Cover				Vegetation Present? Yes ● No ○			
	50% of Total Cover:1	1.55 20%	6 of Total Cover:	4.62	Present? Yes ♥ No ∪			
Rema	trace anemone sp. shrubs on pronounced hum	mocks. tro	oughs dominate	ed by herba	ceous veg w scorpoidium scorpoides (aquatic moss).			

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SOIL Sampling Point: SW13_T205_02

Profile Descripti			eded to docur	ment the indicator or co			ators)					
Depth Matrix					Redox Features		2	-	Domanica			
(inches)	Color (mc		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks			
0-5	5YR	2.5/2	100					Fibric Organics				
5-10	5YR	3/1						Hemic Organics				
10-12	7.5YR	2.5/1	100					Sapric Organics	50% cobble			
							-					
								-				
¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
	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 \	-	-		Other (Explain in Remarks)				
	Surface (A1))										
Alaska Gle	-	,		³ One indicator of	hydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	ydrology,			
Alaska Red	, , ,			and an appropria	te landscap	e position r	nust be pre	esent				
	eyed Pores (A1	5)		⁴ Give details of o	olor chang	e in Remark	s					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ● No O			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi		ators:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one	is sufficien	t)					Water Stained Leaves (B9) (B7) Drainage Patterns (B10)				
Surface W	Vater (A1)			☐ Inundation V	/isible on A	erial Image	ry (B7)					
✓ High Water Table (A2)				Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposit	s (B15)				of Reduced Iron (C4)			
Water Ma				Hydrogen Su				Salt Deposits (C5)				
l —	Deposits (B2)			Dry-Season \					Stressed Plants (D1)			
☐ Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)			
l — -	or Crust (B4)								quitard (D3)			
✓ Iron Depo									graphic Relief (D4)			
	oil Cracks (B6)	1					T	✓ FAC-neutra	al Test (D5)			
Field Observa		Y22 (No •	Divide Grade								
Surface Water				Depth (inche	es):							
Water Table P		Yes 🖲	No 🔾	Depth (inche	es): 11		Wetla	nd Hydrology Presen	t? Yes • No ·			
Saturation Pre (includes capil		Yes 🧿	No O	Depth (inche	es): 7							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Demander:												
Remarks: iron floc on mosses and roots in troughs.												
iron floc on mo	sses and roots	s in troughs	;.									

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