WETLAND DETERMINATION DATA FORM - Alaska Region

Sampling Point Sampling Point Sampling Point Sull 205 Sull 20	Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 31-Jul-13		
Care a principation Sul, EAC Landform (hillside, terrace, hummocks etc.): Flat	Applica	nt/Owner: Alaska Energy Authority			-			
Subregion: Interior Alaska Mountains				Landform (hill	side, terrac			
Latt: 63.368614912								
No Continue No Continu								
Are vegetation Soil Or Hydrology Significantly disturbed? Are vegetation Soil Or Hydrology Significantly disturbed? Are vegetation Soil Or Hydrology Or Hydrology	_		Lat(33.3000 149 12	-			
Are Vegetation				. V	■ N= ○			
Hydrophytic Vegetation Present? Yes	Are V	egetation , Soil , or Hydrology segetation , Soil , or Hydrology r	significantly naturally pro	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)		
Steel Sampled Area within a Wetland? Yes No No within a Wetland? Yes No Worksheet: Total verble of pominant species That are OBL, FACW, or FAC: 7, (A) Total area (DL, FACW, or FAC: 7, (A) T				pility politic	locations	s, transects, important reatures, etc.		
## Wetland Hydrology Present? Yes ● No ○				ls	the Sam	nled Δrea		
Remarks: hgwsb Rema								
Tree Stratum		Wetland Hydrology Present? Yes ● No C)		4 11	oudita.		
Tree Stratum		-	st all spe	cies in the	plot.	Dominance Test worksheet		
1.	Tro	Stratum						
Comparison of					Status			
3.	2							
A								
Total Cover:								
Total Cover: 0 20% of Total Cover:	5.		0			Parada a Tada a sanda bada		
Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 OBL Species 38.1 x 1 = 38.1		Total Cover:						
1. Andromeda polifolia (IAM) 2.	Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0			
2			0.1		ODI	50.1		
Section Sec					OBL			
4.								
5.	_							
6.								
7.					-	Column Totals: <u>44.1</u> (A) <u>51.1</u> (B)		
8.	_					Prevalence Index = B/A = 1.159		
9.	_		0			Hydrophytic Vegetation Indicators:		
Total Cover: Herb Stratum								
Herb Stratum 50% of Total Cover: 0.05 20% of Total Cover: 0.02 Remarks or on a separate sheet) 1. Trichophorum caespitosum 15 ✓ OBL 2. Carex rariflora 3. Carex limosa 4. Carex atrofusca 5 ✓ OBL FACW Plot size (radius, or length x width) 10m Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	10.		0					
2. Carex rariflora 3. Carex limosa 4. Carex atrofusca 5	Her	-00/ 5 0		of Total Cover	: 0.02	Remarks or on a separate sheet)		
3. Carex limosa 5	1.	Trichophorum caespitosum	15		OBL	Problematic Hydrophytic Vegetation (Explain)		
4. Carex atrofusca 5 FACW Plot size (radius, or length x width) 10m	2.	Carex rariflora			OBL			
Plot size (radius, or length x width) 10m	3.	Carex limosa		✓	OBL	be present, unless disturbed or problematic.		
	4.		5	~		Plot size (radius, or length x width)		
% Cover of Wetland Bryophytes	5.	Tofieldia pusilla	_1_		FAC			
6. Carex aquatilis OBL (Where applicable)			5	\				
7. Eriophorum angustifolium 1 OBL % Bare Ground		· •				% Bare Ground		
8. Eriophorum scheuchzeri 1 OBL Total Cover of Bryophytes		<u> </u>	1			Total Cover of Bryophytes		
9. Carex livida 5 OBL								
nydrophytic	10.		1		OBL			
Total Cover: 44 Vegetation 50% of Total Cover: 22 20% of Total Cover: 8.8 Present? Yes • No •				44 20% of Total Cover:		Present? Yes No		
Remarks: 1% utricularia vulgarisf, 1% carex glacialis						1		

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SOIL Sampling Point: SW13_T205_05

Depth		ne depth need 1atrix	eu to docume	nt the indicator or confirm the absence of indicators) Redox Features			.atOIS)				
(inches)	Color (mo	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
									_		
-									-		
								-			
¹Type: C=Co	ncentration. D=	Depletion. R	M=Reduced	Matrix ² Locatio	n: PL=Por	– ——— e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I				Indicators for P							
	r Histel (A1)		_	Alaska Color C		4	- F	Alaska Gleved Without F	Alaska Gleyed Without Hue 5Y or Redder		
	pedon (A2)			Alaska Gleyed Without Hue 51 or Redder Alaska Alpine swales (TA5) Underlying Layer							
_	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue ✓ Other (Explain in Remarks)							
	k Surface (A12)			_							
Alaska Gle	eyed (A13)			³ One indicator of and an appropria				nary indicator of wetland	hydrology,		
Alaska Re	dox (A14)					•	•				
Alaska Gle	eyed Pores (A15)		⁴ Give details of o	color chang	e in Remark	KS				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	:? Yes • No O		
Depth (incl	hes):										
Remarks:											
assume hydric	soil due to hyd	ophytic vege	etation and i	nundation.							
HYDROLO	_										
	rology Indica								icators (two or more are required)		
	ators (any one i	s sumcient)		Inundation \	/isible on A	arial Imaga	m. (D7)		ined Leaves (B9)		
✓ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1)				☐ Inundation \☐ Sparsely Veg		_		 □ Drainage Patterns (B10) □ Oxidized Rhizospheres along Living Roots (C3) □ Presence of Reduced Iron (C4) □ Salt Deposits (C5) 			
				Marl Deposit		icave Surrac	ce (b0)				
				Hydrogen Su	. ,	(C1)					
Sediment	Deposits (B2)			Dry-Season				Stunted o	r Stressed Plants (D1)		
Drift Dep	osits (B3)			Other (Expla	in in Rema	rks)		Geomorph	nic Position (D2)		
Algal Mat	or Crust (B4)							Shallow A	quitard (D3)		
✓ Iron Depo	osits (B5)								graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutr	al Test (D5)		
Field Observa		Yes •	No O	Danth (in ale	\- 4						
Surface Wate			_	Depth (inche	•		147 - 41 -	. d 11. d. d. d	V (A) N (
Water Table F		Yes O		Depth (inch	es):		wetiai	nd Hydrology Preser	nt? Yes • No O		
Saturation Pro (includes capi		Yes 🔾	No 💿	Depth (inche	es):						
Describe Recor	rded Data (strea	am gauge, m	onitor well,	aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
iron floc and b	iogenic sheen										

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