WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	rough/City:	Denali Bo	rough Sampling Date:	05-Aug-13	
Applicant/Owner: Alaska Energy Authority				Sampling Point: S	W13_T201_05	
Investigator(s): SLI, EAC	La	andform (hill	side, terrac	ce, hummocks etc.): Toeslope		
Local relief (concave, convex, none): none	S	Slope: 0.0	% / 0.0	° Elevation: 687		
Subregion : Interior Alaska Mountains	Lat: 63	3.363319516			Datum: WGS84	
Soil Map Unit Name:		3.000010010		NWI classification: PEM1		
Are climatic/hydrologic conditions on the site typical for this ti	mo of voor?	Vec	● No ○	(If no, explain in Remarks.)	<u> </u>	
	significantly on aturally prol	disturbed? blematic?	Are "N (If nee	ormal Circumstances" present? Yes ded, explain any answers in Remarks.)	
Hydrophytic Vegetation Present? Yes ● No C)					
Hydric Soil Present? Yes ● No C)	Is the Sampled Area within a Wetland? Yes ● No ○				
Wetland Hydrology Present? Yes ● No □)					
Remarks: snags, dead and down wood scattered through			= 100/			
VEGETATION -Use scientific names of plants. Li				over by pieca strags - possible rusty bit	ackbird Habitat:	
Ose scientific flames of plants. El	ot an spec	ics in the	piot.	Dominance Test worksheet:		
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	0		Status	That are OBL, FACW, or FAC:	(A)	
				Total Number of Dominant	2 (B)	
2				Species Across All Strata:	(B)	
4.				Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)	
5.	0			Burnels of Turkers and the set		
Total Covers				Prevalence Index worksheet: Total % Cover of: Multiply	, hv.	
Sapling/Shrub Stratum 50% of Total Cover:	o 20% o	f Total Cover:	0	OBL Species 54.1 x 1 =	54.1	
	•		-	FACW Species $0 \times 2 =$		
1				FAC Species 45.1 x 3 =		
			-	FACU Species 0 x 4 =	100.0	
				UPL Species 0 x 5 =		
5		\Box				
6.				Column Totals: 99.2 (A)	<u>189.4</u> (B)	
7.				Prevalence Index = B/A =	1.909	
8.	0			Hydrophytic Vegetation Indicators:		
9.	0			✓ Dominance Test is > 50%		
10.	0			✓ Prevalence Index is ≤3.0		
Total Cover: Herb Stratum 50% of Total Cover:		of Total Cover	: 0	Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)		
Calamagrostis canadensis	45	✓	FAC	Problematic Hydrophytic Vegetation		
Carex aquatilis	30	✓	OBL	¹ Indicators of hydric soil and wetland hyd	rology must	
3. Equisetum fluviatile	-		OBL	be present, unless disturbed or problema	tic.	
4. Hippuris vulgaris			OBL	Plot size (radius, or length x width)	_10m	
5. Comarum palustre			OBL	% Cover of Wetland Bryophytes		
6. Caltha leptosepala			OBL	(Where applicable)		
7. Eriophorum angustifolium 8. Rumex arcticus	0.1		OBL FAC	% Bare Ground	_95	
			1 AC	Total Cover of Bryophytes	0	
9				Handan who shi -		
Total Cover:		_		Hydrophytic Vegetation		
50% of Total Cover:		f Total Cover:	19.84	Present? Yes • No •		
Remarks:						

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SOIL Sampling Point: SW13_T201_05

Profile Description		the depth nee	ded to documen	nt the indicator or co	onfirm the abs		ators)					
(inches)	Color (moi	ist)	% C	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-8	5PB	4/1		.5YR 4/8	30	C	PL	Silt Loam				
									,			
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil In	ndicators:		I	ndicators for P	roblematio	c Hydric Sc	oils:					
Histosol or	r Histel (A1)			Alaska Color C	Change (TA4	4 1)		Alaska Gleyed Without Hu	ue 5Y or Redder			
Histic Epip	` '			Alaska Alpine				Underlying Layer				
	Sulfide (A4)			Alaska Redox	-	•		Other (Explain in Remark	s)			
	k Surface (A12)	ı										
Alaska Gle								nary indicator of wetland h	ydrology,			
✓ Alaska Red			ä	and an appropria	ate Ianascap	e position in	nust be pre	esent				
	eyed Pores (A15	i)		⁴ Give details of o	color change	e in Remark	S					
Restrictive Laye	er (if present):								- 0			
Type:								Hydric Soil Present?	? Yes ● No O			
Depth (inch	nes):											
HYDROLO												
Wetland Hydr			· 	 _					cators (two or more are required)			
	ators (any one is	s sufficient)							ned Leaves (B9)			
✓ Surface W	` ,			Inundation \		-	, , ,		atterns (B10)			
✓ High Wate	` ,			Sparsely Ve	_	icave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposit	. ,				f Reduced Iron (C4)			
Water Mai				Hydrogen Si		. ,		Salt Deposi				
l —	Deposits (B2)			Dry-Season					Stressed Plants (D1)			
☐ Drift Depo				Other (Expla	ain in Rema	rks)			c Position (D2)			
	or Crust (B4)							☐ Shallow Aq				
✓ Iron Depo								_	raphic Relief (D4)			
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)			
Field Observa		v - 📵										
Surface Water	r Present?	Yes •		Depth (inch	es): 2							
Water Table P	resent?	Yes 💿	No \bigcirc	Depth (inch	ies): 0		Wetlar	nd Hydrology Presen	t? Yes 🕙 No 🔾			
Saturation Pre (includes capil		Yes	No O	Depth (inch	ies): 0							
Describe Recor	ded Data (strea	am gauge, n	nonitor well, a	aerial photos, pre	evious inspe	ction) if ava	ilable:					
Damanka												
Remarks:		· · - : - ! - !	· · · · · · · · · · · · · · · · · · ·	To things	· · · · · · · · · · · · · · · · · · ·	· " ad in	· · of o	······································				
scattered surial	ce water in gra	minoia com	munity w iron	floc and biogen	ic sheen. sn	nali pona iri	center or c	community, unknown depth	1.			

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