WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Β	orough/City:	Denali Bo	rough Sampling Date: 02-Aug-13		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T149_02		
Investigator(s): SLI, EAC		Landform (hill	side, terrac	e, hummocks etc.): Valley bottom		
Local relief (concave, convex, none): concave		Slope:	%/ 2.7	' * Elevation: 658		
Subregion : Interior Alaska Mountains	Lat.: (63.384824276	 33	Long.: -148.489746331 Datum: NAD83		
Soil Map Unit Name:	_			NWI classification: PEM1E		
Are climatic/hydrologic conditions on the site typical for this t	ime of vear'	2 Yes	• No ()	(If no, explain in Remarks.)		
	-	/ disturbed?		lormal Circumstances" present? Yes No		
	naturally pr			eded, explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes O No	-					
	Is the Sampled Area					
Wetland Hydrology Present? Yes No		wi	ithin a W	'etland? Yes $ullet$ No $igloodow$		
Remarks: substantial microtopo, 1-1.5 ft tall tussocks w gra						
	-					
VEGETATION - Use scientific names of plants. L	ict all coo	cios in tho	nlot			
	-		-	Dominance Test worksheet:		
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	0			That are OBL, FACW, or FAC: (A)		
2.	0			Total Number of Dominant Species Across All Strata: 4 (B)		
3.	0			Percent of dominant Species		
4.	0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
5.	0			Prevalence Index worksheet:		
Total Cover	: 0			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $50 \times 1 = 50$		
1. Salix pulchra	10	\checkmark	FACW	FACW Species 35.1 x 2 = 70.2		
2.				FAC Species x 3 =		
3.				FACU Species 0 x 4 = 0		
4.				UPL Species x 5 =		
5.				Column Totals: <u>92.1</u> (A) <u>141.2</u> (B)		
6	0					
7	0			Prevalence Index = B/A = <u>1.533</u>		
8	0			Hydrophytic Vegetation Indicators:		
9	0			✓ Dominance Test is > 50%		
10	0			✓ Prevalence Index is ≤3.0		
Total Cover: 10 Herb Stratum 50% of Total Cover: 5 20% of Total Cover: 2			: 2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
	15		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2 Carex utrigulate			OBL	¹ Indicators of hydric soil and wetland hydrology must		
	10		FACW	be present, unless disturbed or problematic.		
4. Comarum palustre	- <u>-</u>		OBL			
5. Calamagrostis canadensis	7		FAC	Plot size (radius, or length x width) <u>10m</u>		
6. Galium trifidum	0.1		FACW	% Cover of Wetland Bryophytes (Where applicable)		
7. Carex saxatilis	15	\checkmark	FACW	% Bare Ground		
8.	0			Total Cover of Bryophytes 5		
9.						
10.	0			Hydrophytic		
Total Cover				Vegetation		
50% of Total Cover:	41.05 20%	of Total Cover:	16.42	Present? Yes No		

Remarks: trace galium sp

Natrix Redox Features	tors)						
(inches) Color (moist) % Color (moist) % Type ¹	Loc 2	Texture	Remarks				
0-3 10YR 3/1 100		hemic organics					
3-10 10B 4/1 70 10YR 3/6 30 C	PL	Silty Clay	w high organic content				
		Silty Clay	wingh organic content				
<u>10-15</u> <u>10G</u> <u>4/1</u> <u>100</u>							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=		innel. M=Matrix					
Hydric Soil Indicators: Indicators for Problematic Hydric Soil	ls: ³						
Histosol or Histel (A1)	\checkmark	Alaska Gleyed Without H	ue 5Y or Redder				
Histic Epipedon (A2)		Underlying Layer					
Hydrogen Sulfide (A4)		Other (Explain in Remark	s)				
Thick Dark Surface (A12) Alacka Claurad (A12) ³ One indicator of hydrophytic vegetation,		non indicator of watland b	udvala au				
Alaska Gleyed (A13) and an appropriate landscape position mu			yarology,				
Alaska Redox (A14)	-						
Alaska Gleyed Pores (A15) ⁴ Give details of color change in Remarks							
Restrictive Layer (if present):							
Type: silty clay		Hydric Soil Present	? Yes 🖲 No 🔾				
Depth (inches): 3		-					
Remarks:							
redox features do not meet requirement of value and chroma of 4 or more for AK redox (A14)							
HYDROLOGY							
Wetland Hydrology Indicators:			cators (two or more are required)				
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)		Water Stain	ned Leaves (B9)				
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