WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 25-Aug-15	5	
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T325_0	01	
nvestigator(s): JGK		Landform (hill	side, terrac	e, hummocks etc.): Bench		
Local relief (concave, convex, none): flat		Slope: 0.0	% / 0.0	° Elevation:		
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS8	84	
Soil Map Unit Name:	-			NWI classification: PEM1E		
Are climatic/hydrologic conditions on the site typical for this tir		-2 Voc	No ○	(If no, explain in Remarks.)		
Are Vegetation , Soil , or Hydrology share Vegetation , Soil , or Hydrology no summary OF FINDINGS - Attach site map show	significantl naturally pr ving san	y disturbed? roblematic?	Are "N (If nee	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.)		
Hydrophytic Vegetation Present? Yes No		la.	the Com	mlad Araa		
Hydric Soil Present? Yes ● No ○	l			npled Area /etland? Yes ◉ No ◯		
Wetland Hydrology Present? Yes ● No ○	1	W	ithin a W	etiand? Tes © NO C		
Remarks:						
VEGETATION - Use scientific names of plants. Lis	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species		
Tree Stratum 1.	% Cover	Species?	Status	That are OBL, FACW, or FAC: 4 (A	۹)	
2.				Total Number of Dominant		
3				Species Across All Strata: 4 (B	3)	
4.				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A	4/B)	
5.						
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	0.00		
		\checkmark		OBL Species <u>55</u> x 1 = <u>55</u> FACW Species 5 x 2 = <u>10</u>		
Betula glandulosa Andromeda polifolia		▼	FACW	FAC Species 9 x 3 = 27		
2			FAC	FACU Species 0 x 4 = 0		
A Manadal or Patricia	1		FAC	UPL Species 0 x 5 = 0		
vaccinium uiiginosum Picea mariana	1		FACW		(D)	
6.				Column Totals: 69 (A) 92	(B)	
7.	0			Prevalence Index = B/A = 1.333		
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	: 2	Morphological Adaptations (Provide supporting data Remarks or on a separate sheet)	a in	
Carex aquatilis	_35_	~	OBL	Problematic Hydrophytic Vegetation (Explain)		
Eriophorum viridicarinatum	15	~	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3. Comarum palustre	3		OBL	be present, unless disturbed or problematic.		
4. Carex marina ssp. marina			OBL	Plot size (radius, or length x width)		
5. Calamagrostis canadensis			FAC	% Cover of Wetland Bryophytes		
6. Parnassia palustris			FACW	(Where applicable)		
7. Rubus chamaemorus			FACW	% Bare Ground5		
8.				Total Cover of Bryophytes 30		
9.	0					
10				Hydrophytic Vegetation		
Total Cover: 50% of Total Cover:2		of Total Cover	11.8	Present? Yes • No		
				1		
Remarks:						

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SOIL Sampling Point: SW15_T325_01

D	Matrix	aca to documer	nt the indicator or confi Redo	x Featu		ators)		
Depth (inches) Color (mo	ist)	% 0	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2							Peat	
2-20							Mucky peat	
							-	
							-	
¹ Type: C=Concentration. D=	Depletion. F	RM=Reduced	Matrix ² Location:	PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		I	ndicators for Prol	blematic	Hydric So	oils: ³		
Histosol or Histel (A1)			Alaska Color Cha	nge (TA4	4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine swa	ales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox Wi	th 2.5Y H	ue		Other (Explain in Remark	(S)
☐ Thick Dark Surface (A12))							
Alaska Gleyed (A13)			one indicator of higher of higher and an appropriate				nary indicator of wetland hesent	nydrology,
Alaska Redox (A14)				-	•			
Alaska Gleyed Pores (A1	5)		⁴ Give details of cold	or change	e in Remark	is .		
Restrictive Layer (if present):								
Туре:							Hydric Soil Present	? Yes ● No O
Depth (inches):								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indica	tors:						Secondary Indi	cators (two or more are required)
								cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indica			☐ Inundation Visi	ible on Ae	erial Image	ry (B7)	Water Stai	
Wetland Hydrology Indica Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2)			☐ Inundation Visi☐ Sparsely Veget		-	, , ,	Water Stai	ned Leaves (B9)
Wetland Hydrology Indica Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3)			☐ Sparsely Veget☐ Marl Deposits (ated Con (B15)	cave Surfac	, , ,	Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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