WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	ite: Susitna-Watana Hydro	electric Project		Borough	n/City:	Denali Bo	rough Sampling Date: 08-Aug-13			
Applicant	t/Owner: Alaska Energy Aut	thority					Sampling Point: SW13_T170_02			
Investiga		•		Landfo	Landform (hillside, terrace, hummocks etc.): Valley bottom lowland					
Local reli	ief (concave, convex, none):	flat		Slope:	Slope: 0.0 % / 0.0 ° Elevation: 826					
Subregio	n: Interior Alaska Mountains	3	Lat.:	 63.421	052814	1	Long.: -148.651662469 Datum: WGS84			
-	Unit Name:						NWI classification: PEM1F			
Are Veg	getation . , Soil .	, or Hydrology , or Hydrology ach site map sho	significar naturally owing sa	ntly distur problema	bed? atic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
H;	ydrophytic Vegetation Present ydric Soil Present? /etland Hydrology Present? ·ks: Fresh sedge marsh.	Yes No No Yes No No Yes No	\supset			the Sam thin a W	pled Area etland? Yes No			
/EGET	ATION - Use scientific n	ames of plants. I	ist all s _l	oecies i	n the	plot.				
			Absolut	e Dom	inant	Indicator	Dominance Test worksheet:			
	Stratum		% Cove		cies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1			0	_			Total Number of Dominant			
2			0	_			Species Across All Strata: 2 (B)			
3. —				_			Percent of dominant Species			
4. —				_			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5		Total Cove	r: <u>0</u>	_			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Saplin	ng/Shrub Stratum 5	50% of Total Cover:	0 20	% of Tota	l Cover:	0	OBL Species <u>81</u> x 1 = <u>81</u>			
1. 8	Salix pulchra		2		✓	FACW	FACW Species 2 x 2 = 4			
2.				_			FAC Species0 x 3 =0			
3.			_				FACU Species0 x 4 =0			
4			0	_			UPL Species			
5			0	_			Column Totals: <u>83</u> (A) <u>85</u> (B)			
6			0	_			Prevalence Index = B/A = 1.024			
7			0	_			Prevalence Index = B/A =1.024_			
8				_			Hydrophytic Vegetation Indicators:			
				_			✓ Dominance Test is > 50%			
10				_			Prevalence Index is ≤3.0			
Herb S	Stratum	Total Cove 50% of Total Cover: _		 0% of Tota		: 0.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
_				_	V	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
				_		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
J				_		OBL	be present, unless disturbed of problematic.			
				_			Plot size (radius, or length x width)			
				_			% Cover of Wetland Bryophytes			
				_	\Box		(Where applicable) % Bare Ground			
				_			70 Sare Ground Total Cover of Bryophytes O			
				_			Total cover of bryophlytes			
8				_			The state of the s			
8 9							Hydronhytic			
8 9			0	_			Hydrophytic Vegetation Present? Yes No			

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

		ne depth nee l atrix	ded to docum	nent the indicator or cor	nfirm the ab		ators)				
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
¹Type: C=Co	ncentration. D=	Depletion. I	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix			
Hydric Soil Indicators:				Indicators for Pr	oblemati	C Hydric So	oils: ³				
Histosol or Histel (A1)				Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	pedon (A2)			Alaska Alpine s	•	•		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y H	lue	V	✓ Other (Explain in Remarks)			
	k Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropriat					ydrology,		
☐ Alaska Re	dox (A14) eyed Pores (A15	١		4 Give details of co	olor change	e in Remark	s				
		,									
Restrictive Lay	er (if present):							Undria Cail Breasant	? Yes • No O		
Type: Depth (incl	hes).							Hydric Soil Present	r res 🕲 No 🔾		
Remarks:	103).										
dissume nyune	soil due to hydr	opnytic veg	ctation and	mandaton.							
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary India	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)						Water Stair	ned Leaves (B9)		
Surface Water (A1)				Inundation V	isible on A	erial Imager	ry (B7)	☐ Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)		
					lfide Odor			☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)		
Drift Dep	or Crust (B4)			Other (Explai	n in Rema	rks)		☐ Geomorphi	c Position (D2)		
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	, ,							- The neutro	1 1000 (20)		
Surface Wate		Yes	$_{No}$ \bigcirc	Depth (inche	s): 2						
Water Table F		Yes 〇		Depth (inche			Wetlan	nd Hydrology Presen	t? Yes • No O		
Saturation Pro		_		, ,	•		TT CCIAI		. 105 0 110 0		
(includes capi		Yes O	No •	Depth (inche	s):						
Describe Recor	ded Data (strea	m gauge, r	nonitor wel	l, aerial photos, prev	vious inspe	ection) if ava	ilable:				
Remarks:											
-											

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