WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Boroug	gh/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13		
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T179_07		
nvesti	igator(s): WAD, RWM		_ Land	Landform (hillside, terrace, hummocks etc.): Toeslope				
_ocal	relief (concave, convex, none): concave		_ Slop	Slope: 0.0 % / 0.0 ° Elevation: 1200				
Subre	gion : Interior Alaska Mountains	Lat.:	63.14	63.14594996 Long.: -148.309508324 Datum: WGS84				
Soil Ma	ap Unit Name:			NWI classification: PEM1E				
Are \		significar naturally	ntly distu problen	urbed? natic?	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.)		
Ren	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wet sedge meadow Yes No No No No No No No No No No	\supset			the Sam thin a W	pled Area etland? Yes No		
/EGI	ETATION - Use scientific names of plants. L	ist all s _l	oecies	in the _l	plot.			
		Absolut			Indicator	Dominance Test worksheet:		
	ee Stratum	% Cove		ecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.			_			Total Number of Dominant		
2.			_			Species Across All Strata:3(B)		
3. 4.			_			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0	_			That Are OBE, FACW, OF FAC. 100.076 (A/B)		
J.	Total Cove	- <u> </u>	_	Ш		Prevalence Index worksheet:		
60.			_	tal Cover:	0	Total % Cover of: Multiply by:		
Sap	bling/Shrub Stratum 50% of Total Cover:		7/0 01 10	_	0	OBL Species 66 x 1 = 66		
	Salix fuscescens	15	<u> </u>		FACW	FACW Species 15 x 2 = 30		
2.			_			FACUS paging 0 x 3 = 0		
3.			_			FACU Species 0 x 4 = 0		
4.		_	_			UPL Species <u>0</u> x 5 = <u>0</u>		
5.			_			Column Totals: <u>81</u> (A) <u>96</u> (B)		
6.			_			Prevalence Index = B/A =1.185_		
7.			_					
8. 9.			_			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
			_			✓ Prevalence Index is ≤3.0		
	Total Cove rb Stratum 50% of Total Cover: _	r: <u>15</u>		otal Cover:	: 3	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
-	Carex aquatilis	35	5	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Carex limosa		_	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
	Comarum palustre		_		OBL	be present, unless disturbed or problematic.		
_	Eriophorum angustifolium	1	_		OBL	Diet size (vadius or length y width)		
5.		_	_			Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes		
6			_			(Where applicable)		
0.		0	_			% Bare Ground		
7.						Total Cover of Bryophytes		
7. 8.								
7. 8.		0	_					
7. 8. 9.		0				Hydrophytic		
7. 8. 9.		0 0 r:66	_	tal Cover:	13.2	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)

Depth (inches) Color (moist) % Color (moist) % Type 1 Loc 2 Texture Remarks

Depth	Matrix			Redox Features						
(inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
	-			·				-		
							-	-		
1										
*Type: C=Cor	ncentration. D=L	Depletion. F	RM=Reduce	ed Matrix ² Locatio				nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for P	roblemati	Hydric S	oils: ³			
Histosol or	Histel (A1)			Alaska Color C	hange (TA	1)		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A2) Alaska Alpine sv					swales (TA					
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue	✓	Other (Explain in Remark	rs)	
☐ Thick Dark	Surface (A12)			_						
Alaska Gle	yed (A13)			One indicator of and an appropria	hydrophyl to landscar	ic vegetation	on, one prim	nary indicator of wetland h	ydrology,	
Alaska Red	dox (A14)				•	-		23CHC		
Alaska Gle	yed Pores (A15)			⁴ Give details of o	olor chang	e in Remarl	ks			
Restrictive Laye	er (if present):									
Type:	, ,							Hydric Soil Present	? Yes ● No ○	
Depth (inch	nes):									
Remarks:										
	dow organia by	duia aaila a								
wet seage mea	dow, organic hy	uric soils a	ssumeu							
HYDROLO	GY									
Wetland Hydi	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
Surface W	/ater (A1)			☐ Inundation \	/isible on A	erial Image	ery (B7)	Drainage F	atterns (B10)	
✓ High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
✓ Saturation	n (A3)			Marl Deposit	s (B15)			Presence of	f Reduced Iron (C4)	
☐ Water Mai	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	its (C5)	
Sediment	Deposits (B2)			Dry-Season	Water Tabl	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		✓ Geomorph	ic Position (D2)	
Algal Mat	or Crust (B4)							Shallow Ac	uitard (D3)	
☐ Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)	
Surface So	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa	ations:									
Surface Water	Present?	Yes \bigcirc	No 🕑	Depth (inche	es):					
Water Table P	resent?	Yes 💿	No \bigcirc	Depth (inch	es): 0		Wetlar	nd Hydrology Presen	t? Yes • No 🔾	
Saturation Pre	esent?	Yes	Na O		•					
(includes capil	llary fringe)	res 🕓	NO U	Depth (inche	es): 0					
Describe Record	ded Data (strea	m gauge, n	nonitor wel	l, aerial photos, pre	vious inspe	ection) if av	ailable:			
Remarks:										

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