WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/Cit	y: Matanusk	ka-Susitna Borough Sampling Date: 01-Aug-13								
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T143_11											
Invest	igator(s): WAD, RWM	ce, hummocks etc.): hillside											
	relief (concave, convex, none): flat	O ° Elevation: 1085											
Subre	gion : Interior Alaska Mountains	Lat ·	63.220575	809	Long.: -148.243720293 Datum: WGS84								
	ap Unit Name:	NWI classification: Upland											
	imatic/hydrologic conditions on the site typical for this ti	ima af vaa	V	res No	(If no, explain in Remarks.)								
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No													
		•	oroblematic		eded, explain any answers in Remarks.)								
				·									
SUM	MARY OF FINDINGS - Attach site map sho		mpling po	int locations	s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes No No In the Sampled Area													
	Hydric Soil Present? Yes No			Is the Sampled Area within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes O No G	lacksquare		within a Wetland? Yes ○ No ●									
Ren	narks: dwarf shrub and graminoid meadow below hillo	crest.											
VEG	ETATION -Use scientific names of plants. L	ist all sp	ecies in t	ne plot.									
		Absolute	Domina	nt Indicator	Dominance Test worksheet:								
	ee Stratum	% Cove	r Species	? Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)								
1.		0			Total Number of Dominant								
2.		0	-		Species Across All Strata:3(B)								
3.			- 片		Percent of dominant Species								
4.		0	-		That Are OBL, FACW, or FAC:100.0% (A/B)								
5.	7.110		- "		Prevalence Index worksheet:								
	Total Cover		- 		Total % Cover of: Multiply by:								
Sa	pling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Co	ver:0	OBL Species 0 x1 = 0								
1.	Empetrum nigrum	40	_	FAC	FACW Species 1 x 2 = 2								
2.	Salix reticulata	25	_	FAC	FAC Species 116 x 3 = 348								
3.			- —	FAC	FACU Species 8 x 4 = 32								
4.			-	FAC	UPL Species 0 x 5 = 0								
5.	Vaccinium vitis-idaea		-	FAC	Column Totals: <u>125</u> (A) <u>382</u> (B)								
6.	Salix pulchra		-	FACW	Prevalence Index = B/A = 3.056								
7.		- 0	-		H. J. J. P. W. J. P. J. P. J.								
8. 9.			- 📙		Hydrophytic Vegetation Indicators: Dominance Test is > 50%								
10.		- 0	-		Prevalence Index is ≤3.0								
10.	Total Cover				Morphological Adaptations ¹ (Provide supporting data in								
Не	rb Stratum 50% of Total Cover:			over: 17.6	Remarks or on a separate sheet)								
1.	Festuca altaica	25	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Anthoxanthum monticola ssp. alpinum			FACU	¹ Indicators of hydric soil and wetland hydrology must								
3.	Solidago multiradiata			FACU	be present, unless disturbed or problematic.								
4.	Sedum rosea	2		FAC	Plot size (radius, or length x width) 10m								
5.	Aconitum delphinifolium	1	- 📙	FAC	% Cover of Wetland Bryophytes								
6.			- 📙		(Where applicable)								
		0	-		% Bare Ground								
					Total Covers of Buseshites								
8.			-		Total Cover of Bryophytes								
8. 9.		0			Total Cover of Bryophytes								
8. 9.		0			Hydrophytic								
8. 9.		0 0 37	_	ver: 7.4									

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SOIL Sampling Point: SW13_T143_11

Dfil- Description	/D-nevilee to	et - danata n	d-dag dags	t the significant on on	C the ak	of india	>		10mc 5W15_1145_11			
		the depth no Matrix	eeded to docu	ment the indicator or co	nfirm the at dox Featu		ators)					
Depth (inches)					%	Type ¹	Loc ²	Texture	Remarks			
0-1	Color (mo	oist)	<u>%</u> 100	Color (moist)		Туре	LOC	Fibric Organics	Remarks			
1-3	10YR	2/2	100					Silt Loam				
		2/2			-							
3-5	7.5YR	3/2	100					Silt Loam				
5-9	7.5YR	3/4	100					Silt Loam				
					-							
¹Type: C=Con	centration. D	=Depletion	. RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hvdric Sc	oils:					
	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without Hu	ie 5Y or Redder			
Histic Epipe	. ,			Alaska Alpine s		-		Underlying Layer				
	Sulfide (A4)			Alaska Redox V				Other (Explain in Remarks	5)			
' '	Surface (A12)										
Alaska Gley	-	,						nary indicator of wetland hy	ydrology,			
Alaska Red				and an appropriat	le ianusca	pe position i	nust be pre	esent				
Alaska Gley	yed Pores (A1	5)		4 Give details of co	olor chang	e in Remark	S					
Restrictive Laye	r (if present):											
Type:	(7							Hydric Soil Present?	Yes ○ No •			
Depth (inch	es):							•	-			
Remarks:												
no hydric soil indicators observed												
	4.04.0.0											
HYDROLO												
Wetland Hydr									ators (two or more are required)			
Primary Indicat		is sufficien	t)						ned Leaves (B9)			
Surface W				☐ Inundation V		-	, , ,		atterns (B10)			
High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)					nizospheres along Living Roots (C3) Reduced Iron (C4)				
☐ Saturation (A3) ☐ Water Marks (B1)				☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Odor (C1)				Salt Deposit	` '			
	Deposits (B2)								Stressed Plants (D1)			
Drift Depo	' ' '			Dry-Season \		. ,			C Position (D2)			
	or Crust (B4)			U Other (Explain	III III Keilia	irks)		Shallow Aqu	` '			
☐ Iron Depo									raphic Relief (D4)			
	oil Cracks (B6)	ı						FAC-neutral				
Field Observa		<u>'</u>										
Surface Water		Yes C	No ●	Depth (inche	es):							
Water Table P	recent?		No •				Wetlau	nd Hydrology Present	t? Yes ○ No •			
Saturation Pre				Depth (inche	:5):		W Ccia.	na myarology meseni	ii ics a no a			
(includes capil		Yes 🤇	No 💿	Depth (inche	es):							
Describe Record	ded Data (stre	am gauge	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:					
	-				-	-						
Remarks:												
no hydrology indicators observed												

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