WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 04-Jul-13		
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T137_07					
Invest	igator(s): WAD, BAB	e, hummocks etc.): Hillside					
Local	relief (concave, convex, none): concave		Slope: 10.	5 % / 6.0	° Elevation: 979		
Subre	gion : Southcentral Alaska	Lat.:	62.82878029	 93	Long.: -148.90860486 Datum: WGS84		
	ap Unit Name:		NWI classification: Upland				
	matic/hydrologic conditions on the site typical for this ti	me of vea	r? Yes	s • No O	(If no, explain in Remarks.)		
		•	ly disturbed?		Iormal Circumstances" present? Yes No		
		•	roblematic?		eded, explain any answers in Remarks.)		
	MARY OF FINDINGS - Attach site map show						
JUIVI			ilpiilig poili	it locations	s, transects, important reatures, etc.		
		s the Sam	pled Area				
			within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes No C)					
Ren	narks: swale on hillside above lake. hummocky microre	elief.					
VEG	ETATION -Use scientific names of plants. Li	st all sn	ecies in the	nlot			
	2 Transit Use scientific flames of plants. Li	st an sp	ccics iii tiic	, piot.	Dominance Test worksheet:		
Terr	o Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species		
1.	ee Stratum	0		Status	That are OBL, FACW, or FAC: (A)		
2.			. 🗀		Total Number of Dominant		
3.					Species Across All Strata: 3 (B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover				Total % Cover of: Multiply by:		
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cove	r: <u>0</u>	OBL Species $0 \times 1 = 0$		
1.	Cassiope tetragona	45	✓	FACU	FACW Species 0 x 2 = 0		
2.	Vaccinium uliginosum	10		FAC	FAC Species 42 x 3 = 126		
3.	Empetrum nigrum	10	· _	FAC	FACU Species 47 x 4 = 188		
4.	Salix reticulata	5		FAC	UPL Species 0 x 5 = 0		
5.	Vaccinium vitis-idaea	5		FAC	Column Totals: <u>89</u> (A) <u>314</u> (B)		
6.	Betula nana	5		FAC			
7.	Salix rotundifolia	1		FAC	Prevalence Index = B/A = 3.528		
8.		0	. 🔲		Hydrophytic Vegetation Indicators:		
9.		0	. 📙		☐ Dominance Test is > 50%		
10.		0	. \square		Prevalence Index is ≤3.0		
١	Total Cover: 50% of Total Cover:	or: 16.3	Morphological Adaptations (Provide supporting data in				
_	Ocean binalandi		_		Remarks or on a separate sheet)		
	Carex bigelowii		. V	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Bistorta plumosa Festuca rubra		. 🔻	FACU FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3. 4.		-	. 📙	IAC			
					Plot size (radius, or length x width) 10m		
					% Cover of Wetland Bryophytes (Where applicable)		
					% Bare Ground		
					Total Cover of Bryophytes 30		
1							
		0			Hydrophytic		
9.							
9.	Total Covers	-	6 of Total Cove		Vegetation Present? Yes No No		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T137_07

Profile Descripti	ion: (Describe to	the depth ne	eded to docur	ment the indicator or cor	nfirm the at	osence of indic	ators)	· -	10mc. 54415_1157_67		
Depth		Matrix			dox Featı	ures					
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks		
0-1			100					Fibric Organics			
1-2	10YR	4/2	100					Sand			
2-4			100					Fibric Organics			
4-8			100					Hemic Organics	with sand particles		
-					-						
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	ed Matrix ² Location	ı: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	ic Hydric Sc	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	.4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	.5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	s)		
	Surface (A12)		3 One indicator of	hydronhy	rtic vegetatio	n one nrim	nary indicator of wetland h	ydrology		
Alaska Gle				and an appropriat					yurology,		
Alaska Red	. ,	- \		4 Give details of co	olor chang	ie in Remark	S				
	eyed Pores (A1						_				
Restrictive Laye	er (if present):								O O		
Type:).			Ну				Hydric Soil Present	? Yes○ No •		
Depth (inch	nes):										
Remarks:											
no hydric soil i	ndicators										
HYDROLO											
Wetland Hydi									cators (two or more are required)		
Primary Indica Surface W		is sufficieric)				(07)	Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
				☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)				_	hizospheres along Living Roots (C3)		
	☐ High Water Table (A2) ✓ Saturation (A3)			☐ Sparsely Vege		ncave Surrac	ce (Bø)		f Reduced Iron (C4)		
Water Ma	` '			Hydrogen Sul	. ,	· (C1)		Salt Deposi	` '		
Sediment Deposits (B2)				Dry-Season V					Stressed Plants (D1)		
Drift Deposits (B3)				Other (Explai				✓ Geomorphi	` '		
	or Crust (B4)								uitard (D3)		
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa	ations:										
Surface Water	r Present?		No 💿	Depth (inche	s):						
Water Table P	resent?	Yes \bigcirc	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capil		Yes •	No O	Depth (inche	s): 8						
Describe Recor	ded Data (stre	am gauge,	monitor we	ll, aerial photos, prev	vious inspe	ection) if ava	ilable:				
		•									
Remarks:											
deep depressio	ns full of large	cobbles, ir	nundated.								

U.S. Army Corps of Engineers Alaska Version 2.0