WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 07-Jul-13									
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T134_04											
Investi	gator(s): WAD, BAB	lside, terrac	ce, hummocks etc.): pond margin											
Local r	elief (concave, convex, none): concave		5 ° Elevation: 847											
Subrea	ion : Southcentral Alaska	 97	Long.: -148.734508395 Datum: NAD83											
_	p Unit Name:	NWI classification: PEM1F												
	natic/hydrologic conditions on the site typical for this ti	imo of vo	or? Yes	● No ○	(If no, explain in Remarks.)									
		•	itly disturbed?		Iormal Circumstances" present? Yes No									
		-	problematic?		eded, explain any answers in Remarks.)									
		-		·										
SUMN	MARY OF FINDINGS - Attach site map sho		impling point	locations	s, transects, important features, etc.									
	Hydrophytic Vegetation Present? Yes No O													
	Hydric Soil Present? Yes No			within a Wetland? Yes No										
	Wetland Hydrology Present? Yes No C	etialia: 100 o 110 o												
Rema	irks:													
VEGE	TATION -Use scientific names of plants. Li	<u>ist all s</u> p	pecies in the	plot.										
		Absolut			Dominance Test worksheet:									
Tree	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A)									
		0	_		Total Number of Dominant									
2. 3.			-		Species Across All Strata: 4 (B)									
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)									
5.		0	-											
	Total Cover	. 0			Prevalence Index worksheet: Total % Cover of: Multiply by:									
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	— 1% of Total Cover	: 0	001.0									
-					OBL Species 40 x 1 = 40 FACW Species 11 x 2 = 22									
	Salix richardsonii	1		FACW	FAC Species 17.5 x 3 = 52.50									
	Salix pulchra Salix barclayi	10		FAC	FACU Species 0 x 4 = 0									
4.	Vaccinium uliginasum	5		FAC	UPL Species 0 x 5 = 0									
5.	Salix reticulata	0.1		FAC										
6.	Dasiphora fruticosa	1		FAC										
7.	·	0			Prevalence Index = B/A = <u>1.672</u>									
8.		0			Hydrophytic Vegetation Indicators:									
9.		0			✓ Dominance Test is > 50%									
10.		0	_		✓ Prevalence Index is ≤3.0									
	Total Cover				☐ Morphological Adaptations ¹ (Provide supporting data in									
	b Stratum 50% of Total Cover:		_		Remarks or on a separate sheet)									
	Carex aquatilis			OBL	Problematic Hydrophytic Vegetation ¹ (Explain)									
2.	Eriophorum angustifolium			OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.									
3.	Equisetum arvense Rhodiola integrifolia	0.1		FAC FAC	be present, unless disturbed of problematic.									
4. 5.	Calamagrostis canadensis	1		FAC	Plot size (radius, or length x width)									
6.	Cornus suecica	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)									
7.	Rubus arcticus	0.1		FAC	% Bare Ground									
					Total Cover of Bryophytes									
		0			Hydrophytic									
	Total Cover		Vegetation											
	50% of Total Cover:	20.7 20	% of Total Cover	8.28	Present? Yes No No									
Rem	arks:													

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SOIL Sampling Point: SW13_T134_04

Peofile Descriptions (Descripts to the death peoded to desument the indicator or confirm the absence of indicators)

		ne depth nee	ded to docum	nent the indicator or cor	nfirm the ab		ators)				
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
		-									
								-			
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:			Indicators for Pr		4	oils: ³	_			
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	`	,		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	V	Other (Explain in Remarks)			
	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	` '			4 Give details of co	olor change	e in Remark	rs				
	eyed Pores (A15))									
Restrictive Lay	er (if present):								- v 0 v 0		
Type:								Hydric Soil Present? Yes No ○			
Depth (incl	ies).										
	soil due to hydr	, in 109									
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stained 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	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su				Salt Depos			
Sediment Deposits (B2)				☐ Dry-Season V					Stressed Plants (D1)		
☐ Drift Dep	` ,			U Other (Explai	n in Rema	rks)			c Position (D2)		
	or Crust (B4)							_	uitard (D3)		
☐ Iron Depo	oil Cracks (B6)							✓ Microtopog ✓ FAC-neutra	raphic Relief (D4)		
	· · · ·							▼ FAC-Heutra	Trest (D5)		
Field Observater Surface Water		Yes	No O	Depth (inche	s): 6						
		Yes O					Watlan	ad Usadralaasi Draaan	t? Yes • No O		
Water Table F		_		Depth (inche	s): 0		wetian	nd Hydrology Presen	tr res © NO C		
Saturation Pre (includes capi		Yes O	No 💿	Depth (inche	s): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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