WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 30-Jul-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T156_09			
	gator(s): BAB		Landform (hillside, terrace, hummocks etc.): depression					
	relief (concave, convex, none): concave		Slope: 0.0 % / 0.0 ° Elevation: 989					
	gion : Interior Alaska Mountains	Lat ·	63.28002490	_	Long.: -148.352343086 Datum: WGS84			
	ap Unit Name:	Lat	03.20002490	71	NWI classification: PEM1E			
	matic/hydrologic conditions on the site typical for this ti		.0 Vo	No O				
	matic/nydrologic conditions on the site typical for this ti /egetation \square , Soil \square , or Hydrology \square :				(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
	/egetation ✓ , Soil ✓ , or Hydrology ☐	_	-		eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing sar	npling poin	t locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C)		41				
	Hydric Soil Present? Yes No C)			ıpled Area /etland? Yes ◉ No ◯			
	Wetland Hydrology Present? Yes No C)	W	within a Wetland? Yes ● No ○				
Ren	narks: wetland between two between two beaver dam	ıc						
	welland between two between two beaver dain							
VEGI	ETATION - Use scientific names of plants. Li	st all spe	ecies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.		0			That are OBL, FACW, or FAC: (A) Total Number of Dominant			
2.		0			Species Across All Strata:			
3.		0	. 📙		Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	. \square		Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cove	r: <u>0</u>	OBL Species 30.2 x 1 = 30.2			
1.		0			FACW Species <u>8</u> x 2 = <u>16</u>			
2.					FAC Species <u>15</u> x 3 = <u>45</u>			
3.			. 🔲		FACU Species			
4.					UPL Species <u>0</u> x 5 = <u>0</u>			
5.		0	. 📙		Column Totals: <u>53.2</u> (A) <u>91.20</u> (B)			
6.					Prevalence Index = B/A = 1.714			
7.			. 📙					
8.					Hydrophytic Vegetation Indicators:			
9.			. 📙		✓ Dominance Test is > 50%			
10.	Total Cover		. \square		✓ Prevalence Index is ≤3.0			
Hei	b Stratum 50% of Total Cover:		% of Total Cove	er: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Caray aquatilia	20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Calex aquatilis Calamagrostis canadensis		· •	FAC	Indicators of hydric soil and wetland hydrology must			
3.	Arctagrostis latifolia			FACW	be present, unless disturbed or problematic.			
4.	Eriophorum angustifolium	10		OBL	Distriction (and time and leave the CAULY)			
5.	Carex saxatilis	3		FACW	Plot size (radius, or length x width) 10m			
6.	Hippuris vulgaris	0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)			
	Ranunculus hyperboreus	0.1		OBL	% Bare Ground			
7.		0.1		OBL	Total Cover of Bryophytes0			
	Sparganium hyperboreum							
8.	Sparganium hyperboreum		. 📙					
8. 9.		0			Hydrophytic			
8. 9.		0 0 53.3			Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T156_09

Depth		ne depth needed to document the indicator or confirm the absence of indicators) atrix Redox Features					.atOIS)				
(inches)	Color (mo	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
									-		
								-	-		
									, -		
					_						
¹Type: C=Co	ncentration. D=	Depletion. R	M=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	c Hydric So	oils: ³				
Histosol or Histel (A1)				☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	pedon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue							
	k Surface (A12)			3 One indicator of	hydronhyd	ic vegetatio	n one nrin	nary indicator of wetland	hydrology		
Alaska Gle				and an appropria					iyurology,		
☐ Alaska Re	dox (A14) eyed Pores (A15	,		4 Give details of c	olor chang	e in Remark	(S				
)									
Restrictive Layer Type:	er (ir present):							Hydric Soil Present	:? Yes • No ·		
Depth (incl	hes):							nyunc son Present	.: les C NO C		
Remarks:											
	soil due to hyd	onbytic year	atation and	inundation							
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,,									
HYDROLO	GY.										
	rology Indica	tors:						Secondary Ind	icators (two or more are required)		
	ators (any one i							Water Sta	ined Leaves (B9)		
✓ Surface V	Vater (A1)			✓ Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage	Patterns (B10)		
High Wat	er Table (A2)			✓ Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized F	Rhizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposit	. ,				of Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				Salt Depo			
	Deposits (B2)			✓ Dry-Season					r Stressed Plants (D1)		
☐ Drift Dep	,			Other (Expla	in in Rema	rks)			nic Position (D2)		
Iron Depo	or Crust (B4)								quitard (D3) graphic Relief (D4)		
	ioil Cracks (B6)							✓ FAC-neutr			
Field Observa	, ,							- The near	1 1030 (D3)		
Surface Wate		Yes	$_{No}\bigcirc$	Depth (inche	es): 24						
Water Table F	Present?	Yes 🔾	No •	Depth (inche	•		Wetla	nd Hydrology Preser	nt? Yes 💿 No 🔾		
Saturation Pro	esent?			, ,	,			,			
(includes capi				Depth (inche							
Describe Recor	rded Data (strea	am gauge, m	onitor well,	, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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