WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Aug-15
Applicar	t/Owner: Alaska Energy Authority				Sampling Point: SW15_T322_08
nvestiga	itor(s): BAB		Landform (hills	side, terrac	ce, hummocks etc.): Channel (active)
.ocal re	ief (concave, convex, none): concave		Slope: 5.2	%/ 3.0	D° Elevation:
Subregi	on : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
-	Unit Name:				NWI classification: R3UBH
	atic/hydrologic conditions on the site typical for th	is time of ver	ar? Yes (• No ()	
Are Ve	getation □ , Soil □ , or Hydrology □ getation ☑ , Soil ☑ , or Hydrology □	significant	tly disturbed? problematic?	Are "N	Iormal Circumstances" present? Yes No
SUMM	ARY OF FINDINGS - Attach site map s	howing sa	mpling point	locations	s, transects, important features, etc.
ŀ	lydrophytic Vegetation Present? Yes • No	00			
		o O	ls	the Sam	npled Area
	,	0	wi	thin a W	/etland? Yes \odot No \bigcirc
	ks: active channel, extensive old beaver disturbar		sub angular br	ulders and	d cobbles on stream hed
		ice apocieani	, sub ungulur be		
L					
EGE	ATION - Use scientific names of plants	. List all sp	ecies in the p	plot.	
			_		Dominance Test worksheet:
Tree	Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species
1.					That are OBL, FACW, or FAC: (A)
2.					Total Number of Dominant Species Across All Strata: 0 (B)
3.			·		
4.			·		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.					
-	Total Co	ver: 0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapli	ng/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	
					FACW Species 0 $x^{1} = 0$ $x^{2} = 0$
1. 2.					FAC Species $0 \times 3 = 0$
2. 3.		-			FACU Species $0 \times 4 = 0$
3. 4.					UPL Species $0 \times 5 = 0$
6.					Column Totals: <u>0</u> (A) <u>0</u> (B)
					Prevalence Index = B/A =0.000_
8.					Hydrophytic Vegetation Indicators:
9.					Dominance Test is > 50%
					Prevalence Index is ≤3.0
	Total Co Stratum50% of Total Cover:			0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.		0			\checkmark Problematic Hydrophytic Vegetation (Explain)
					¹ Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
					Plot size (radius, or length x width) _2 x 4m
					% Cover of Wetland Bryophytes
6.			- Ц		(Where applicable)
					% Bare Ground
		-			Total Cover of Bryophytes
		_			
		0			
			-		Hydrophytic
	Total Co 50% of Total Cover:	ver: 0	- - - - - - - - - - - - - -	0	Hydrophytic Vegetation Present? Yes No

Depth N	the depth needed to docu fatrix	ment the indicator or confir Redo x	m the absence of indic Features	ators)		
(inches) Color (mo	ist) %	Color (moist)	% Type ¹	Loc 2	Texture	Remarks
	,					
				·		
¹ Type: C=Concentration. D=	Depletion. RM=Redu				I. M=Matrix	
Hydric Soil Indicators:		Indicators for Prob	4	oils:		
Histosol or Histel (A1)		Alaska Color Char			aska Gleyed Without Hu	ue 5Y or Redder
Histic Epipedon (A2)		Alaska Alpine swa	. ,	_	derlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox Wit	n 2.5Y Hue	✓ Ot	her (Explain in Remark	s)
Thick Dark Surface (A12)		3 One indicator of hu			in disates of such and h	
Alaska Gleyed (A13)		and an appropriate l	andscape position r	n, one primary nust be presen	indicator of wetland h t	yarology,
Alaska Redox (A14)						
Alaska Gleyed Pores (A15)	⁴ Give details of colo	r change in Remark	S		
Restrictive Layer (if present):						
Туре:				H	dric Soil Present	? Yes 🖲 No 🔾
Depth (inches):						
Remarks:						
active channel, assume hydric	soil					
deave channely abbarne nyarie	5011					
HYDROLOGY						
Wetland Hydrology Indica	tors				Socondany India	ators (two or more are required)
Primary Indicators (any one is						ned Leaves (B9)
Surface Water (A1)	<u>s sumeiency</u>	✓ Inundation Visit	lo on Aorial Imago	n/ (P7)		atterns (B10)
High Water Table (A2)			ted Concave Surfac	y (D7)		
				o (B8)		
Saturation (A3)		Marl Deposite (F		e (B8)	Oxidized RI	nizospheres along Living Roots (C3)
Saturation (A3) Water Marks (B1)		Marl Deposits (315)	e (B8)	Oxidized RI	nizospheres along Living Roots (C3) f Reduced Iron (C4)
Water Marks (B1)		Hydrogen Sulfid	315) e Odor (C1)	e (B8)	Oxidized RI Create of Presence o Salt Deposi	nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5)
Water Marks (B1) Sediment Deposits (B2)		Hydrogen Sulfid	315) e Odor (C1) rer Table (C2)	e (B8)	Oxidized RI Oxidized RI Presence o Salt Deposi Stunted or	nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Hydrogen Sulfid	315) e Odor (C1) rer Table (C2)	e (B8)	Oxidized RI Presence o Salt Deposi Stunted or Geomorphi	nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2)
 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) 		Hydrogen Sulfid	315) e Odor (C1) rer Table (C2)	e (B8)	 Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq 	hizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3)
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 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) 		Hydrogen Sulfid	315) e Odor (C1) rer Table (C2)	e (B8)	 Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq 	hizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
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