WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 24-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T315_11
nvestigator(s): EKJ. SCB		Landform (hill	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): none) ° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this	time of year	ır? Vas	● No ○	
Are Vegetation . , Soil . , or Hydrology .		tly disturbed?		Iormal Circumstances" present? Yes No
	-	problematic?		eded, explain any answers in Remarks.)
			•	
SUMMARY OF FINDINGS - Attach site map sho	wing sai	mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	\supset	_		
Hydric Soil Present? Yes ● No	\supset			npled Area /etland? Yes ◉ No ◯
Wetland Hydrology Present? Yes No	\supset	Wi	ithin a W	/etland? Yes ♥ No ∪
Remarks: beaver-modified channel draining slope wetland.			o 3ft in upp	per pool, incised 15 in, depth 8 in. bottom muddy in upper
pool, medium to large angular cobbles in lower of	channel. no	vegetation.		
/EGETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cove	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
1.				Total Number of Dominant
2				Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4.				That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				Prevalence Index worksheet:
Total Cove		_		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species x 1 =
1	0			FACW Species 0 x 2 = 0
2				FAC Species 0 x 3 = 0
3	0			FACU Species 0 x 4 = 0
4				UPL Species <u>0</u> x 5 = <u>0</u>
5				Column Totals:0 (A)0 (B)
6				Prevalence Index = B/A =2.000_
7.				
8.				Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10Total Cove				Prevalence Index is ≤3.0
Herb Stratum 50% of Total Cover:		_ % of Total Cover	: 0	Morphological Adaptations (Plovide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation (Explain)
2.				¹ Indicators of hydric soil and wetland hydrology must
3.	_			be present, unless disturbed or problematic.
4.				Plot size (radius, or length x width) 1x5m
5.				Plot size (radius, or length x width) 1x5m Cover of Wetland Bryophytes
6	^	. 🔲		(Where applicable)
	_ 0	. 📙		% Bare Ground
7				Total Cover of Bryophytes
7 8				Total Cover of bryophytes
	0			Total Cover of Bryophytes
8	0			Hydrophytic
8. 9.	0 0 0	_	0	

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Profile Descript Depth	on: (Describe to the depth needed to doc Matrix			ument the indicator or confirm the absence of indicators) Redox Features					
(inches)	Color (moi	st)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
		,				-77-			
									-
					-				
					-				
									-
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pro	blematic	Hydric So	oils: ³		
Histosol o	r Histel (A1)			Alaska Color Ch	ange (TA4	1)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	pedon (A2)			Alaska Alpine sv	vales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox W	ith 2.5Y F	lue	✓	Other (Explain in Remark	(S)
Thick Darl	k Surface (A12)			_					
Alaska Gle	eyed (A13)			³ One indicator of land an appropriate				nary indicator of wetland h	nydrology,
Alaska Re				ани ан арргорнай	e ianuscap	e position i	nust be pre	esent	
Alaska Gle	eyed Pores (A15)		⁴ Give details of co	lor change	e in Remark	S		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes • No O
Depth (incl	nes):								
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)
✓ Surface V	Vater (A1)			✓ Inundation Vi	sible on A	erial Imagei	ry (B7)	☐ Drainage F	Patterns (B10)
High Wat	er Table (A2)			Sparsely Vege	tated Cor	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	n (A3)			Marl Deposits	(B15)			Presence of	of Reduced Iron (C4)
Water Ma	ırks (B1)			Hydrogen Sul	fide Odor	(C1)		☐ Salt Depos	sits (C5)
Sediment	Deposits (B2)			Dry-Season W	ater Tabl	e (C2)		Stunted or	Stressed Plants (D1)
☐ Drift Depo	osits (B3)			Other (Explain	n in Rema	rks)		Geomorph	ic Position (D2)
Algal Mat	or Crust (B4)							Shallow Ac	quitard (D3)
✓ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)
Surface S	oil Cracks (B6)							FAC-neutra	al Test (D5)
Field Observa	ations:								
Surface Wate	r Present?	Yes 💿	No \bigcirc	Depth (inches	s): 10				
Water Table F	Present?	Yes \bigcirc	No 💿	Depth (inches	:).		Wetlar	nd Hydrology Presen	t? Yes No
Saturation Pre				, ,	•			, ,,	
(includes capi		Yes O	No 🔍	Depth (inches	5):				
Describe Recor	ded Data (strea	ım gauge, ı	monitor we	ll, aerial photos, prev	ious inspe	ction) if ava	ilable:		
Remarks:									
	ed channel drain	ina slone v	etland ave	erage width 15 in inc	ised 15 in	, depth 8 in	, bottom m	nedium to large angular co	bbles, no vegetation.
DCGVCI IIIOGIIIC	a chamici urali	mig stope v	reciana, ave	auge muui 13 III, IIIC	IJ III	, acpair o ili	. Doctom III	icaiaiii to iaige aliguidi to	SS.CS. No vegetation.

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