WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City	Matanusk	ka-Susitna Borough Sampling Date: 07-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T187_05
Investigator(s): JGK		Landform (h	nillside, terrac	ce, hummocks etc.): depression
Local relief (concave, convex, none): concave		Slope:		6 ° Elevation: 620
Subregion : Interior Alaska Mountains	Lat.:	62.8381545	 537	Long.: -148.190824986 Datum: NAD83
Soil Map Unit Name:		02.000.010		NWI classification: L1UBH
Are climatic/hydrologic conditions on the site typical for this	time of ve	ar? Ye	s (No (
Are Vegetation . , Soil . , or Hydrology .				Normal Circumstances" present? Yes No No
Are Vegetation , Soil , or Hydrology	-	-		eded, explain any answers in Remarks.)
	-			
SUMMARY OF FINDINGS - Attach site map sho		mpiing poil	it iocations	s, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes No Wes No		ı	s the Sam	npled Area
ya com . rocont.			within a W	
Wetland Hydrology Present? Yes No Remarks: At point of lake outflow. Well developed lacustring				
composed of Nuphar.	ic milge c	n i Li iiL diid	along stream	r exiting lake, but this plot describes the aquatice bed
VECETATION Has according to the second secon	:-+ - II		1-4	
VEGETATION -Use scientific names of plants. L			e piot.	Dominance Test worksheet:
Tree Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2.			-	Total Number of Dominant Species Across All Strata: 1 (B)
3.		-		
4.				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cove	r: <u>0</u>	_		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cov	er: <u>0</u>	OBL Species 15 x 1 = 15
1	0			FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.			-	FACU Species0 x 4 =0
4.	^			UPL Species
5	^			Column Totals:15 (A)15 (B)
6	0	_ 🖳		Prevalence Index = B/A = 1.000
7	0	_		1 Tevalence index – D/A –
8		-		Hydrophytic Vegetation Indicators:
9.		- =		✓ Dominance Test is > 50%
10.	0			Prevalence Index is ≤3.0
Total Cove Herb Stratum 50% of Total Cover:			rer: 0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Nuphar polysepala	15	✓	OBL	Problematic Hydrophytic Vegetation ¹ (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) 10m
5				Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes
6		_		(Where applicable)
				% Bare Ground
7				
7. 8.	0			Total Cover of Bryophytes
7. 8. 9.	0			
7. 8. 9. 10.	0 0			Hydrophytic
7. 8. 9.	0 0 0 0 r: 15	_	 er: 3	

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SOIL

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

Depth
Redox Features

Sampling Point: SW13_T187_05

Profile Description: (Describe to the Depth	latrix		Red	lox Featu	ires		_	
(inches) Color (mois	st)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
								- I
								-
¹ Type: C=Concentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix	
Hydric Soil Indicators:			Indicators for Pro	oblemati	c Hydric S	oils: ³		
Histosol or Histel (A1)			Alaska Color Ch	ange (TA	4)		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine sv	wales (TA	5)		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox W	Vith 2.5Y I	Hue	✓	Other (Explain in Remar	ks)
Thick Dark Surface (A12)								
Alaska Gleyed (A13)			One indicator of and an appropriate				mary indicator of wetland I	nydrology,
Alaska Redox (A14)			ани ан арргорнак	e ianuscaj	be position	must be pro	esent	
Alaska Gleyed Pores (A15))		⁴ Give details of co	olor chang	e in Remarl	ks		
Restrictive Layer (if present):								
Type:							Hydric Soil Present	:? Yes • No O
71" -							,	165 - 115 -
Depth (inches):								
Depth (inches): Remarks: assume hydric soil due to hydr	ophytic vec	getation an	d inundation.					
Remarks:	ophytic veg	getation an	d inundation.					
Remarks: ssume hydric soil due to hydr	ophytic veç	getation an	d inundation.					
Remarks: ssume hydric soil due to hydr IYDROLOGY Wetland Hydrology Indicat	ors:		d inundation.					icators (two or more are required)
Remarks: IYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is	ors:						Water Sta	ined Leaves (B9)
IYDROLOGY Wetland Hydrology Indicate Primary Indicators (any one is Surface Water (A1)	ors:		✓ Inundation Vi				Water Sta Drainage	ined Leaves (B9) Patterns (B10)
YDROLOGY Vetland Hydrology Indicate Primary Indicators (any one is Surface Water (A1) High Water Table (A2)	ors:		✓ Inundation Vi	etated Co			Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
IYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3)	ors:		✓ Inundation Vi ☐ Sparsely Vege ☐ Marl Deposits	etated Co (B15)	ncave Surfa		Water Sta Drainage Oxidized F Presence of	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4)
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Remarks: ISSSUME hydric soil due to hydric soil due to hydric soil due to hydric soil due to hydric some in the soil of the so	ors:		✓ Inundation Vi ☐ Sparsely Vege ☐ Marl Deposits ☐ Hydrogen Sul	etated Col (B15) Ifide Odor Vater Tabl	ncave Surfa (C1) e (C2)		Water Sta □ Drainage □ Oxidized F □ Presence c □ Salt Depo: □ Stunted or	ined Leaves (B9) Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) sic Position (D2)
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