## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 04-Jul-13				
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T109_02				
Investigator(s): JGK	L	Landform (hillside, terrace, hummocks etc.): Kettle						
Local relief (concave, convex, none): flat		Slope: 0.0 % / 0.0 ° Elevation: 700						
Subregion : Interior Alaska Mountains	Lat.: 6	 32.872667074		Long.: -148.272755742 Datum: WGS84				
Soil Map Unit Name:	_	NWI classification: L1UBH						
Are climatic/hydrologic conditions on the site typical for this tim  Are Vegetation , Soil , or Hydrology , significant signif	gnificantly aturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)				
Hydrophytic Vegetation Present? Yes No No				· · · · · · · · · · · · · · · · · · ·				
Hydric Soil Present? Yes No		Is	Is the Sampled Area					
Wetland Hydrology Present? Yes No		within a Wetland? Yes ● No ○						
, , , , , , , , , , , , , , , , , , ,								
Remarks: DUNN SITE 1389								
Lots of shrimn in lake								
VEGETATION - Use scientific names of plants. List	t all spe	cies in the p	olot.					
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are ORL FACILITY TO THE TEST OF T				
1.	0			That are OBL, FACW, or FAC: (A)				
2.	0			Total Number of Dominant Species Across All Strata: 1 (B)				
3.	0			Percent of dominant Species				
4	0			That Are OBL, FACW, or FAC: 100.0% (A/B)				
5	0			Prevalence Index worksheet:				
Total Cover:				Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover: 0	20%	of Total Cover:	0	OBL Species <u>20</u> x 1 = <u>20</u>				
1	0			FACW Species 0 x 2 = 0				
2.	0			FAC Species0 x 3 =0				
3	0			FACU Species x 4 =				
4	0			UPL Species				
5	0			Column Totals: <u>20</u> (A) <u>20</u> (B)				
6	0			Prevalence Index = B/A = 1,000				
7								
8				Hydrophytic Vegetation Indicators:				
9.				✓ Dominance Test is > 50%				
10Total Cover:				✓ Prevalence Index is ≤3.0				
Herb Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1. Nuphar luteum	20	✓	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	0			be present, unless disturbed or problematic.				
4	0			Plot size (radius, or length x width)				
5				% Cover of Wetland Bryophytes				
6				(Where applicable)				
7				% Bare Ground <u>0</u>				
8.				Total Cover of Bryophytes 0				
9.								
10Total Cover:	20			Hydrophytic Vegetation				
	ZU			Present? Yes • No O				

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SOIL Sampling Point: SW13\_T109\_02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)  Matrix Redox Features							ators)				
Depth		latrix					2	<b>T.</b>	Parranto.		
(inches)	Color (moi	st)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
					-						
¹Type: C=Cor	ncentration. D=	Depletion. I		I Matrix <sup>2</sup> Location				nnel. M=Matrix			
Hydric Soil I	ndicators:		;	Indicators for Pr	oblemati	Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)		[	Alaska Color C	hange (TA	1)4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		[	Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)		[	Alaska Redox \	With 2.5Y H	lue	<b>✓</b>	Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12)			_							
Alaska Gle	yed (A13)			<sup>3</sup> One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red				ани ан арргорна	te iaiiuscap	е рознон н	nust be pre	Sent			
Alaska Gle	yed Pores (A15	)		4 Give details of o	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								<b>Hydric Soil Present</b>	? Yes • No O		
Depth (inch	nes):							•			
Remarks:											
Lake, assume h	vdric soils										
Lake, assume i	iyuric sons.										
<b>HYDROLO</b>	GY										
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
✓ Surface W	/ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage F	atterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
	Saturation (A3) Marl Deposits (B15)								f Reduced Iron (C4)		
Water Marks (B1) Hydrogen Sulfide Odor (C1)								☐ Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dry-Season \	Water Tabl	e (C2)			Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ac	uitard (D3)		
Iron Depo	osits (B5)							_	raphic Relief (D4)		
Surface S	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)		
Field Observa											
Surface Water	r Present?	Yes •	_	Depth (inche	es): 24						
Water Table P	resent?	Yes 🔾	No 🕑	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre		Yes 🔾	No 💿	Depth (inche	es):						
(includes capi				· ` `							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
WATER DEPTH IS LIKELY HIGHER IN THE MIDDLE											
pH 7.86 EC 90 mS											

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