WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-12		
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T36_03		
nvestigator(s): SLI, KMK		Landform (hil	side, terrac	e, hummocks etc.): Footslope		
.ocal relief (concave, convex, none): flat		Slope:	%/ 6.6			
ubregion : Southcentral Alaska	lat.	62.77543000		Long.: -149.642785754 Datum: NAD83		
		02.775450000	71			
oil Map Unit Name:			• No ()	NWI classification: PEM1E		
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? Yes •	significant	tly disturbed? problematic?	Are "N (If nee	 (If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc. 		
	~	ls	the Sam	pled Area		
Hydric Soil Present? Yes 🔍	No		thin a W			
Wetland Hydrology Present? Yes Remarks: sedge community near center of beaver-me	No					
EGETATION - Use scientific names of plan	Absolute	e Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species		
Tree Stratum1.	<u>% Cove</u>	r Species?	Status	That are OBL, FACW, or FAC: <u>2</u> (A)		
				Total Number of Dominant		
2		- 📙		Species Across All Strata: <u>2</u> (B)		
3	0	- 📙		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
4 5.		- 📙		That Are OBL, FACW, or FAC:		
		_		Prevalence Index worksheet:		
	Cover:	- 2/ of Total Covor		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cove	r: <u>0</u> 209	% of Total Cover	0	OBL Species 81 x 1 = 81		
1	0			FACW Species <u>1</u> x 2 = <u>2</u>		
2.	0			FAC Species $1 \times 3 = 3$		
3				FACU Species <u>0</u> x 4 = <u>0</u>		
4		- []		UPL Species x 5 =		
5		-		Column Totals: <u>83</u> (A) <u>86</u> (B)		
6				Prevalence Index = B/A = <u>1.036</u>		
7		- 📙				
8.	0	- 📙		Hydrophytic Vegetation Indicators:		
9		- 📙		Dominance Test is > 50%		
10	0	_		✓ Prevalence Index is ≤3.0		
Herb Stratum 50% of Total Cov	Cover:0 er:20	% of Total Cove	. 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1. Carex aquatilis	50	-	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Carex utriculata		_	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3. Equisetum fluviatile		- 📙	OBL	be present, unless disturbed or problematic.		
4. Comarum palustre		- 📙	OBL	Plot size (radius, or length x width)		
5. Equisetum palustre		- 📙	FACW	% Cover of Wetland Bryophytes		
6. Calamagrostis canadensis	1	- 📙	FAC	(Where applicable)		
7		- 📙		% Bare Ground		
8				Total Cover of Bryophytes		
9						
10Total	Cover: 83	-		Hydrophytic Vegetation		
50% of Total Cove			16.6	Present? Yes • No		

Matrix			document the indicator or confirm the absence of indicators) Redox Features						
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
								-	
								-	
								-	
			· ,						
	centration. D=Depletio	n PM-Pedu	uced Matrix ² Locatio		e Lining P		annel M-Matrix		
		JII. KM=Reuu			-				
Hydric Soil In			Indicators for P		4	oils:	-		
Histosol or Histel (A1)			Alaska Color C		•		Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Histic Epipe	. ,		Alaska Alpine	•	,		Other (Explain in Remark	ks)	
Hydrogen S	Sulfide (A4) Sulface (A12)			WIUI 2.31 1	lue				
Alaska Gley	. ,						mary indicator of wetland h	ıydrology,	
Alaska Gley	. ,		and an appropria	ate landscap	pe position	must be pro	esent		
	ved Pores (A15)		⁴ Give details of o	color chang	e in Remar	ks			
Restrictive Laye	r (if present):								
Type:							Hydric Soil Present	:? Yes 🖲 No 🔿	
Depth (inch	es):								
Remarks:									
H2S odor within	4in of surface. probin	g indicates 4	in hemic organics un	derlain by g	gleyed mine	eral soils.			
HYDROLO	GY								
-	ology Indicators:							icators (two or more are required)	
	ors (any one is sufficie	ent)						ined Leaves (B9)	
Surface W	()		Inundation '		-			Patterns (B10)	
	r Table (A2)		Sparsely Vegetated Concave Surface (B8)			ice (B8)		Rhizospheres along Living Roots (C3)	
Saturation			Marl Deposi	• •				of Reduced Iron (C4)	
Water Mar	()		Hydrogen S				Salt Depos		
	Deposits (B2)		Dry-Season		. ,			r Stressed Plants (D1)	
Drift Depo			Other (Expla	ain in Rema	arks)			ic Position (D2)	
	or Crust (B4)							quitard (D3)	
✓ Iron Depos	. ,							graphic Relief (D4)	
Surface So	il Cracks (B6)						🗹 FAC-neutra	al Test (D5)	

Field	Observations:	
Surfa	ace Water Present?	

Water Table Present?

(includes capillary fringe)

Saturation Present?

Wetland Hydrology Present? Yes ullet No igodot

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Yes \bullet No \bigcirc

Yes \odot No \bigcirc

Yes

No O

Remarks:

water depth 2in throughout vegetated area, stream/pools 12-16in. R2UBH flowing through wetland - silt/organic substrate, 2-10ft wide at bankfull, minimal ohv. adjacent PEM appears regularly inundated - surface water or near surface water table, iron floc on sub

Depth (inches): 2

Depth (inches):

Depth (inches):