WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-12				
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T38_02				
Investigator(s): SLI, KMK		Landform (hillside, terrace, hummocks etc.): Shoreline						
Local relief (concave, convex, none): flat		Slope: 0.0 % / 5.0 ° Elevation: 534						
Subregion : Southcentral Alaska	Lat ·	62.839263245		Long.: -149.528616639 Datum: WGS84				
Soil Map Unit Name:		02.039203243		NWI classification: PEM1H				
Are climatic/hydrologic conditions on the site typical for this t	:	0 Voo	● No ○					
		y disturbed?		(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○				
		oblematic?		eded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes ● No								
Hydric Soil Present? Yes ● No			Is the Sampled Area					
Wetland Hydrology Present? Yes No		Wit	within a Wetland? Yes ● No ○					
Remarks: shallow water zone of pond, see notes for SW1	2 T38 N1 t	for description	of overall	community				
Shallow water zone or porta, see notes for Swi	.2_130_01	ioi description	Or Overall v	community.				
VEGETATION -Use scientific names of plants. L	ist all spe	cies in the p	plot.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)				
1	0			That are OBL, FACW, or FAC:2 (A) Total Number of Dominant				
2	0			Species Across All Strata:2(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>64</u> x 1 = <u>64</u>				
1	0			FACW Species <u>5</u> x 2 = <u>10</u>				
2.				FAC Species0 x 3 =0				
3.	_			FACU Species0 x 4 =0				
4	^			UPL Species0 x 5 =0				
5				Column Totals: <u>69</u> (A) <u>74</u> (B)				
6	0			Prevalence Index = B/A = 1.072				
7				1 Tevalence muck – B/A – 1.072				
8				Hydrophytic Vegetation Indicators:				
9.				✓ Dominance Test is > 50%				
10.				✓ Prevalence Index is ≤3.0				
Total Cover Herb Stratum 50% of Total Cover:		6 of Total Cover:	: 0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)				
1 Corox oquatilia	40	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
Carex aquatiis Arctagrostis latifolia			FACW	Indicators of hydric soil and wetland hydrology must				
Comarum palustre			OBL	be present, unless disturbed or problematic.				
			OBL					
4 Favingtum fluviatile	1			Plot size (radius, or length x width) 2m x 5m				
4. Equisetum fluviatile		✓	OBL					
Equisetum fluviatile Carex magellanica	20		OBL	% Cover of Wetland Bryophytes				
 4. Equisetum fluviatile 5. Carex magellanica 6. 	20		OBL	% Cover of Wetland Bryophytes (Where applicable)				
4. Equisetum fluviatile5. Carex magellanica6.7.	20 0 0		OBL	% Cover of Wetland Bryophytes (Where applicable)				
 4. Equisetum fluviatile 5. Carex magellanica 6. 7. 8. 	20 0 0		OBL	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground 90				
4. Equisetum fluviatile5. Carex magellanica6.7.	20 0 0		OBL	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground 90				
 4. Equisetum fluviatile 5. Carex magellanica 6. 7. 8. 9. 	20 0 0 0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes 5				

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SOIL Sampling Point: SW12_T38_02

		he depth nee latrix	ded to docume	ent the indicator or co	nfirm the ab						
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
						.,,,,					
					-						
					-						
1 _{Typol} C_Con		Donlotion [OM-Doduco	1 Matrix 2 Location	n DI – Dor	o Lining DC		nnol M-Matrix			
	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix										
Hydric Soil Indicators: Indicators for Problematic Hydric Soils.3						oils:					
Histosol or Histel (A1) Alaska Color (ue 5Y or Redder					
Histic Epip				Alaska Alpine s	`	,	✓	Underlying Layer Other (Explain in Remarks)			
	Sulfide (A4)			Alaska Redox V	With 2.5Y F	lue	V	Other (Explain in Remark	3)		
	Surface (A12)			3 One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropriat					yurology,		
Alaska Red	. ,			4 Give details of co	olor chang	e in Remark	c				
☐ Alaska Gle	yed Pores (A15)		Give details of co	olor chang	e iii Kemark	.5				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes 💿 No 🔾		
Depth (inch	nes):										
Remarks:											
no soil pit, site	inundated. ass	ume hydric	soils due to	standing water an	d hydrophy	ytic vegetati	on.				
HYDROLO	CV										
Wetland Hydi		ors:						Secondary India	cators (two or more are required)		
-	tors (any one is								ned Leaves (B9)		
✓ Surface W		,		Inundation V	isihle on Δ	erial Imager	rv (B7)		atterns (B10)		
	✓ Surface Water (A1) ☐ Inundation Visible on Aerial Imagery (E☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (E☐ Sparsel							` '			
	☐ Saturation (A3) ☐ Marl Deposits (B15)						JC (DO)	Presence of Reduced Iron (C4)			
☐ Water Mai	. ,				. ,	(C1)		Salt Deposits (C5)			
	Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2)								Stressed Plants (D1)		
☐ Drift Depo				Other (Explai					ic Position (D2)		
	al Mat or Crust (B4) Shallow Aquitard (D3)										
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	ations:										
Surface Water	Present?	Yes 💿	$_{No}$ \bigcirc	Depth (inche	es): 4						
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	e).		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				, ,	•			,			
(includes capil		Yes O	No 💿	Depth (inche	es):						
Describe Record	ded Data (strea	ım gauge, n	nonitor well,	aerial photos, prev	vious inspe	ection) if ava	ilable:				
Remarks:											
shallow water z	zone										

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