WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 05-Aug-12						
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T34_07						
Investig	gator(s): SLI, KMK	side, terrac	ce, hummocks etc.): Toeslope								
-	elief (concave, convex, none): concave		Slope: 0.0		° Elevation: 1119						
Subrea	ion : Southcentral Alaska	Lat: 6	2.893761578		Long.: -148.681474977 Datum: WGS84						
_	p Unit Name:		2.033701370		NWI classification: PEM1E						
	·		Voo	No ○							
		-	disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes No ○						
Are V	egetation 🗌 , Soil 🗹 , or Hydrology 🔲 r	aturally pro	blematic?	(If nee	eded, explain any answers in Remarks.)						
SUMN	MARY OF FINDINGS - Attach site map show	ving sam	pling point	locations	s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No No In the Semanted Area											
	Hydric Soil Present? Yes ◉ No ◯		Is the Sampled Area within a Wetland? Yes No No								
	Wetland Hydrology Present? Yes ◉ No ◯		WI	unin a vv							
	mapping. tablet data accidentally overwritten. v	irtually ider	ntical to SW12	2_T34_09.	ed soils (PSS1B). unsure if resolution wil allow seperate						
VEGE	TATION -Use scientific names of plants. List	st all spec	cies in the	plot.	1						
		Absolute	Dominant	Indicator	Dominance Test worksheet:						
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3 (A)						
					Total Number of Dominant						
2. 3.					Species Across All Strata:3 (B)						
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.											
0.	Total Cover:	0			Prevalence Index worksheet:						
Sanl			of Total Cover:	0	Total % Cover of: Multiply by: OBL Species 50 x 1 = 50						
			_		OBL Species 50 x1 = 50 FACW Species 35 x2 = 70						
	Salix pulchra			FACW	FAC Species 2 x 3 = 6						
2. 3.	Salix fuscescens			FACW	FACU Species 0 x 4 = 0						
4.					UPL Species 0 x 5 = 0						
5.		0									
6.		0			Column Totals: <u>87</u> (A) <u>126</u> (B)						
7.		0			Prevalence Index = B/A = 1.448						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
10.		0			✓ Prevalence Index is ≤3.0						
Herl	Total Cover: 50% of Total Cover:		of Total Cover	: 6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Comarum palustre	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)						
	Equisetum palustre			FACW	¹ Indicators of hydric soil and wetland hydrology must						
3.	Eriophorum angustifolium			OBL	be present, unless disturbed or problematic.						
4.	Carex aquatilis		✓	OBL	Plot size (radius, or length x width)						
	Luzula parviflora			FAC	% Cover of Wetland Bryophytes						
J	Carex rotundata			OBL	(Where applicable)						
					% Bare Ground						
					Total Cover of Bryophytes 30						
10.	Total Covers				Hydrophytic Vegetation						
	Total Cover: 50% of Total Cover: 2		of Total Cover:	11.4	Present? Yes No						
D					1						
Rema	arks: 1% viola sp										

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SOIL

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

Sampling Point: SW12_T34_07

Profile Descripti Depth	•	ne depth nee l atrix	eded to docur		t the indicator or confirm the absence of indicators) Redox Features						
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
			-								
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	blematic	c Hydric So	oils:				
Histosol or	r Histel (A1)			Alaska Color Ch	ange (TA	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine sv	vales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox W	/ith 2.5Y H	lue	✓	Other (Explain in Remarks)			
Thick Dark	Surface (A12)										
Alaska Gle	, ,			³ One indicator of land an appropriate				nary indicator of wetland h	ydrology,		
Alaska Red						•	•	esent			
Alaska Gle	yed Pores (A15)		⁴ Give details of co	lor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No 🔾		
Depth (inch	nes):										
HYDROLO	GY										
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
-	tors (any one is								ned Leaves (B9)		
✓ Surface W	/ater (A1)			☐ Inundation Vi	sible on A	erial Imagei	ry (B7)		atterns (B10)		
High Wate	er Table (A2)			Sparsely Vege		_		Oxidized R	nizospheres along Living Roots (C3)		
Saturation	n (A3)			☐ Marl Deposits			,	Presence o	f Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Sul	fide Odor	(C1)		☐ Salt Depos	its (C5)		
Sediment Deposits (B2)				Dry-Season W	ater Tabl	e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Deposits (B3)				Other (Explain	n in Rema	rks)		Geomorphi	c Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
✓ Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)		
Surface So	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes 💿	No \bigcirc	Depth (inches	s): 3						
Water Table P	Present?	Yes 🔾	No 💿	Depth (inches	5):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre		Yes 〇	No •	Depth (inches	,						
				ll, aerial photos, prev		ection) if ava	nilable:				
					•	-					
Remarks:											
iron floc on sub	ostrates										

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