WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:19-Aug-15					
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T327_02					
nvestigator(s): GVF Landform (hillside, terrace, hummocks etc.): Swale										
-	elief (concave, convex, none): hummocky		Slope: 1.7	% / 1.0						
	ion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84					
_	p Unit Name:									
				<u> </u>	NWI classification: PEM1E					
	natic/hydrologic conditions on the site typical for this ti egetation . Soil . , or Hydrology . :	-		No O	(If no, explain in Remarks.)					
		•	ntly disturbed?		omar on cametanece procent.					
		-	problematic?	•	eded, explain any answers in Remarks.)					
SUMN	MARY OF FINDINGS - Attach site map show	wing sa	ampling point	locations	s, transects, important features, etc.					
	Hydrophytic Vegetation Present? Yes No C)								
	Hydric Soil Present? Yes ● No C)	ls	the Sam	npled Area					
	Wetland Hydrology Present? Yes ● No C)	wi	ithin a W	/etland? Yes ◉ No 🔾					
Rema	, ,									
1 (01110										
VEGE	TATION - Use scientific names of plants. Li	ist all s	necies in the	nlot.						
					Dominance Test worksheet:					
Tre	e Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species					
1.	- Stratum	, 70 CO11			That are OBL, FACW, or FAC:5(A)					
2.	,	-	-		Total Number of Dominant					
3.			- H		Species Across All Strata:5(B)					
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
5.			-							
	Total Cover	·	_		Prevalence Index worksheet: Total % Cover of: Multiply by:					
Sap	ling/Shrub Stratum 50% of Total Cover:		— 0% of Total Cover:	: 0						
					1511					
	Dasiphora fruticosa	3		FAC						
	Salix fuscescens	1		FACW	FAC Species 3.2 x 3 = 9.6 FACU Species 0 x 4 = 0					
	Andromeda polifolia	0.1		FACW	UPL Species 0 x 5 = 0					
4. 5.	Alnus viridis ssp. sinuata	0.1		FAC OBL						
6.	Vaccinium oxycoccos Vaccinium uliginosum	0.1		FAC	Column Totals: <u>26.7</u> (A) <u>37.5</u> (B)					
7.	vaccinium unginosum	. 0.1		TAC	Prevalence Index = B/A = 1.404					
8.		0			Hydrophytic Vegetation Indicators:					
9.		0			Dominance Test is > 50%					
10.		0			✓ Prevalence Index is ≤3.0					
	Total Cover		_		Morphological Adaptations (Provide supporting data in					
Her	b Stratum 50% of Total Cover:		 20% of Total Cover	: 0.88	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)					
1.	Carex limosa	5	✓	OBL	Problematic Hydrophytic Vegetation (Explain)					
2.	Trichophorum caespitosum	5		OBL	¹ Indicators of hydric soil and wetland hydrology must					
3.	Carex magellanica	3		OBL	be present, unless disturbed or problematic.					
4.	Carex aquatilis	2	✓	OBL	District for discount length whilehis					
5.	Swertia perennis	2	✓	FACW	Plot size (radius, or length x width) % Cover of Wetland Bryophytes					
6.	Eriophorum angustifolium	2		OBL	(Where applicable)					
7.	Spiranthes romanzoffiana	1		OBL	% Bare Ground					
8.	Viola palustris	0.1	<u> </u>	FACW	Total Cover of Bryophytes 45					
9.	Sanguisorba canadensis	0.1	<u> </u>	FACW						
10.	Equisetum palustre	0.1	<u>ı</u>	FACW	Hydrophytic					
	Total Cover				Vegetation					
	50% of Total Cover:1	.1.15 20	0% of Total Cover:	4.46	Present? Yes S NO C					
	· · · · · · · · · · · · · · · · · · ·	: <u>22.3</u>		4.46	Vegetation Present? Yes ● No ○					

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SOIL Sampling Point: SW15_T327_02

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators Matrix Redox Features						ators)			
Depth (inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-18	Color (IIIo	30,	100	Color (Illoist)	_70	Турс	LUC	Mucky Peat		
									-	
			— –							
	-									
			— —						-	
		Depletion. F		d Matrix ² Location				nnel. M=Matrix		
Hydric Soil 1				Indicators for Pro		4	oils:	1		
✓ Histosol o	` '			L Alaska Color Ch		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
Histic Epipedon (A2)				Alaska Alpine s	•	•				
Hydrogen Sulfide (A4)						lue		Other (Explain in Remark	S)	
	k Surface (A12)			3 One indicator of	hydrophyt	ic vegetatio	n one prim	nary indicator of wetland h	vdrology	
Alaska Gl	eyed (A13)			and an appropriat					ydrology,	
	edox (A14)			4 Cive details of se	lou chona	. in Domoule				
Alaska Glo	eyed Pores (A15	5)		⁴ Give details of co	nor change	e iii Kemark	.5			
Restrictive Lay	er (if present):									
Type:								Hydric Soil Present	? Yes 🏵 No 🔾	
Depth (inc	thes):									
HYDROLC	GY									
Wetland Hyd	Irology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	s sufficient)						Water Stair	ned Leaves (B9)	
✓ Surface V	Water (A1)			Inundation Vi	sible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)	
✓ High Water Table (A2)				Sparsely Vege	etated Cor	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits	(B15)			Presence o	f Reduced Iron (C4)	
Water Ma	arks (B1)			Hydrogen Sul	fide Odor	(C1)		Salt Depos	its (C5)	
Sediment	t Deposits (B2)			Dry-Season V	Vater Table	e (C2)			Stressed Plants (D1)	
	osits (B3)			Other (Explai	n in Rema	rks)		✓ Geomorphi	, ,	
	t or Crust (B4)							☐ Shallow Aq		
	osits (B5)								raphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observ										
Surface Wate	er Present?	Yes	_	Depth (inche	s): 2					
Water Table	Present?	Yes 💿	No \bigcirc	Depth (inche	s): 0		Wetlar	nd Hydrology Presen	t? Yes • No 🗆	
Saturation Pr (includes cap		Yes	No \bigcirc	Depth (inche	s): 0					
		am gauge, n	nonitor well,	aerial photos, prev	ious inspe	ction) if ava	nilable:			
- I										
Remarks:										

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