WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		B	orough/City:	Matanusk	a-Susitna Borough Sampling Date:19-Aug-15
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T327_05
	gator(s): GVF			Landform (hills	side, terrac	e, hummocks etc.): Swale
_ocal	relief (concave, convex, none): flat			Slope: 3.5	% / 2.0	° Elevation:
Subre	gion : Cook Inlet Mountains	La	at.:			Long.: Datum: WGS84
	ap Unit Name:		_			NWI classification: PEM1E
	matic/hydrologic conditions on the site typical for this		voor	yee (● No ○	
	rnationly drologic conditions on the site typical for this /egetation \Box , Soil \Box , or Hydrology \Box			disturbed?		ormal Circumstances" present? Yes No
	/egetation , Soil , or Hydrology	•	,	oblematic?		eded, explain any answers in Remarks.)
	•		• .		·	
SUM	MARY OF FINDINGS - Attach site map sh	nowing	sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\bigcirc		_		
	Hydric Soil Present? Yes No	\bigcirc				pled Area
	Wetland Hydrology Present? Yes No	\bigcirc		wi	thin a W	etland? Yes ◉ No ○
Rem	arks:					
/EGI	ETATION -Use scientific names of plants.	List all	spe	cies in the p	olot.	
		Ahsr	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		over	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.						That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
2.						Species Across All Strata: 4 (B)
3.						Percent of dominant Species
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)
5.						Prevalence Index worksheet:
	Total Cov		0			Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species 30 x 1 = 30
1.			0			FACW Species 0 x 2 = 0
2.			0			FAC Species <u>0</u> x 3 = <u>0</u>
3.			0			FACU Species 0 x 4 = 0
4.			0			UPL Species0 x 5 =0
5.			0			Column Totals: 30 (A) 30 (B)
			0			Prevalence Index = B/A =
7.			0			
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.	Total Cov		0			✓ Prevalence Index is ≤3.0
He	b Stratum 50% of Total Cover:		<u>0</u> 20%	of Total Cover:	0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Trichophorum caespitosum		10	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
	Eriophorum angustifolium		6	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex aquatilis		6	✓	OBL	be present, unless disturbed or problematic.
4.	Carex limosa		6	✓	OBL	
5.	Comarum palustre		2		OBL	Plot size (radius, or length x width)
6.			0			% Cover of Wetland Bryophytes (Where applicable)
			0			% Bare Ground
			0			Total Cover of Bryophytes 70
0			0			
9.			0			Hydrophytic
						M
	Total Cov 50% of Total Cover:		30	of Total Cover:	6	Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW15_T327_05

Hydric Soil Indicators: Histosol or Histel (A1) Histic Epipedon (A2) Hydrogen Sulfide (A4) Thick Dark Surface (A2) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A2) Alaska Gleyed Pores (A2) Hydrogen Sulfide (A4) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A2) Hestrictive Layer (if preser Type: Depth (inches):	D=Depletion. RM=	Reduced Matrix ² Locati Indicators for F Alaska Color (Alaska Alpine Alaska Redox 3 One indicator (and an appropri	ion: PL=Pore Lini Problematic Hy Change (TA4) e swales (TA5) c With 2.5Y Hue	getation, one prin	Alaska Gleyed Without Hue 5Y Underlying Layer Other (Explain in Remarks) mary indicator of wetland hydroloesent	
1-20 Type: C=Concentration. Hydric Soil Indicators: Histosol or Histel (A1) Histic Epipedon (A2) Hydrogen Sulfide (A4) Thick Dark Surface (A1) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (estrictive Layer (if preser Type: Depth (inches): emarks:	12) A15)	Indicators for I Alaska Color Alaska Alpine Alaska Redox One indicator of and an appropri	Problematic Hyd Change (TA4) e swales (TA5) c With 2.5Y Hue of hydrophytic veg iate landscape pos	getation, one prin	Mucky Peat Alaska Gleyed Without Hue 5Y Underlying Layer Other (Explain in Remarks) mary indicator of wetland hydroloesent	ogy,
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Alaska Gleyed Pores (estrictive Layer (if preser Type: Depth (inches): emarks:				•		Yes No
destrictive Layer (if preser Type: Depth (inches): emarks:		4 Give details of	color change in F	Remarks	Hydric Soil Present?	Yes ● No ○
Type: Depth (inches): emarks:	t):				Hydric Soil Present?	Yes No
Depth (inches): emarks:					Hydric Soil Present?	Yes No
emarks:						
						_
YDROLOGY						
Vetland Hydrology Ind						(two or more are required)
Primary Indicators (any o	e is sufficient)				Water Stained Le	` '
✓ Surface Water (A1)			Visible on Aerial		☐ Drainage Pattern	
High Water Table (A2)		egetated Concave	Surface (B8)		heres along Living Roots (C3)
✓ Saturation (A3) Water Marks (B1)		☐ Marl Depos	• •		Presence of Redu Salt Deposits (C5	
1	2)	_	Sulfide Odor (C1)		Salt Deposits (CS	
Sediment Deposits (EDrift Deposits (B3)	۷)		n Water Table (C2	.)	Geomorphic Posit	` '
_ ' ' '	1)	Uther (Expl	lain in Remarks)			, ,
Algal Mat or Crust (B)				Shallow Aquitard	
☐ Iron Deposits (B5)☐ Surface Soil Cracks (I	·6)				✓ Microtopographic✓ FAC-neutral Test	` '
ield Observations:	0)				▼ FAC-Heutral Test	(05)
Surface Water Present?	Yes No	O Depth (inch	has): 1			
			,			v a v a
Water Table Present?	Yes 💿 No	0	nes): 0	Wetia	nd Hydrology Present?	Yes No
Saturation Present? (includes capillary fringe)	Yes 💿 No	o O Depth (inch	hes): 0			
escribe Recorded Data (ream gauge, moni	itor well, aerial photos, pr	revious inspection) if available:		
lemarks:						
0% of site covered by su	face water.					

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