WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project	Bc	rough/City:	Matanusk	xa-Susitna Borough Sampling Date: 03-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T106_03
Investi	gator(s): WAD, BAB	L	andform (hill	side, terrac	e, hummocks etc.): Toeslope
Local r	elief (concave, convex, none): concave		Slope: 3.5	% / 2.0) ° Elevation: 819
Subreg	ion : Interior Alaska Mountains	Lat.: 6	2.881566167	7	Long.: -148.583896875 Datum: WGS84
_	p Unit Name:	_			NWI classification: PEM1F
	natic/hydrologic conditions on the site typical for this ti	me of vear?	Yes	No ○	(If no, explain in Remarks.)
		significantly			Iormal Circumstances" present? Yes No
		naturally pro			eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map show		pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes 🌘 No 🤇		la.	the Com	and Area
	Hydric Soil Present? Yes 💿 No 🤇)			ıpled Area /etland? Yes ◉ No ◯
	Wetland Hydrology Present? Yes No)	WI	ithin a W	retiand? res © NO C
Rem	arks: forb meadow in toeslope on bench above creek	,			
	969 photo num				
	13 19 time				
/EGE	TATION -Use scientific names of plants. Li	ist all spec	cies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)
1.		0			That are OBL, FACW, or FAC:5(A) Total Number of Dominant
2.		0			Species Across All Strata:5 (B)
3.		0			Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species <u>105</u> x 1 = <u>105</u>
1.	Salix pulchra	_ 5	✓	FACW	FACW Species <u>5</u> x 2 = <u>10</u>
2.	Salix barclayi	10	✓	FAC	FAC Species <u>25</u> x 3 = <u>75</u>
3.	Salix hastata	10	✓	FAC	FACU Species 0 x 4 = 0
4.		0			UPL Species <u>0</u> x 5 = <u>0</u>
5.		0			Column Totals: <u>135</u> (A) <u>190</u> (B)
6.					Prevalence Index = B/A = 1.407
7.					1.107
8.					Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.	Total Cover				✓ Prevalence Index is ≤3.0
Her	50% of Total Cover:		of Total Cover	: 5	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Facilitation floridation	F0	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
	Comarum palustre		✓	OBL	Indicators of hydric soil and wetland hydrology must
	Eriophorum angustifolium			OBL	be present, unless disturbed or problematic.
	Calamagrostis canadensis	5		FAC	
5.	<u> </u>	0			Plot size (radius, or length x width) 10m
					% Cover of Wetland Bryophytes65 (Where applicable)
					% Bare Ground
					Total Cover of Bryophytes 65
		0			Hydrophytic
	Total Cover 50% of Total Cover:		(= , 10		Vegetation Present? Yes ● No ○
				22	resent ica - No -

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SOIL Sampling Point: SW13_T106_03

Profile Descriptio Depth	ion: (Describe to the depth needed Matrix		to document the indicator or confirm the absence of indicators) Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
								_
								-
								-
						-	_	
LT C. C		DM Dad		DI Dana I	inin n DC	Dark Cha		-
		Dietion. RM=Red	luced Matrix ² Location		_		ппеі. м=матлх	
lydric Soil In			Indicators for P	4	lydric So	oils:		
☐ Histosol or	• ,		Alaska Color (Ш	Alaska Gleyed Without F Underlying Layer	lue 5Y or Redder
☐ Histic Epipe			Alaska Alpine	With 2.5Y Hue		✓	Other (Explain in Remar	ks)
☐ Hydrogen S ☐ Thick Dark	` ,		Alaska Redux	With 2.51 Flue	E		Other (Explain in Remai	10)
Inick Dark Alaska Gley	Surface (A12)						nary indicator of wetland	hydrology,
Alaska Gley Alaska Redo			and an appropria	ate landscape p	position n	nust be pre	esent	
_	ed Pores (A15)		4 Give details of	color change ir	n Remark	s		
estrictive Layer								
estrictive Layer		fract					Hydric Soil Present	t? Yes • No O
Type: inton							nyunc son Present	ir ies 🤄 No 🖰
	es): 30		rganic layer. Shallow i	ce lenses still p	present ir	n patches b	ased on probing	
Depth (inche emarks: ssumed hydric	es): 30 soils given floodir		rganic layer. Shallow i	ce lenses still p	present ir	n patches b	ased on probing	
Depth (inche emarks: ssumed hydric	es): 30 soils given floodir	ng and surface o	rganic layer. Shallow i	ce lenses still p	present ir	n patches b		icators (two or more are required)
Depth (inche emarks: ssumed hydric	es): 30 soils given floodir	ng and surface o	rganic layer. Shallow i	ce lenses still p	present ir	n patches b	_Secondary Ind	icators (two or more are required) ined Leaves (B9)
Depth (inche emarks: ssumed hydric yprolocy) Yprolocy Yetland Hydro Yrimary Indicator	es): 30 soils given flooding GY ology Indicators ors (any one is su	ng and surface o		ce lenses still p			_Secondary Ind	
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