WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13						
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T123_08						
Investi	gator(s): WAD, BAB	lside, terrac	e, hummocks etc.): Hillside								
Local relief (concave, convex, none): hummocky Slope: % / 4.0 ° Elevation: 104											
Subreo	ion : Southcentral Alaska	Lat · 6	32.755450010		Long.: -149.406677009 Datum: NAD83						
	p Unit Name:	72.7 33 4 300 N		NWI classification: Upland							
	natic/hydrologic conditions on the site typical for this tir	no of woor?) Voc	● No ○	(If no, explain in Remarks.)						
Are V	regetation . , Soil . , or Hydrology . s regetation . , Soil . , or Hydrology . r MARY OF FINDINGS - Attach site map show	significantly naturally pro ving sam	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)						
Hydrophytic Vegetation Present? Yes No No In the Sempled Area											
	Hydric Soil Present? Yes ○ No ●		Is the Sampled Area								
	Wetland Hydrology Present? Yes ○ No ●	itnin a w	a Wetland? Yes ○ No ●								
Rema VEGE	ETATION - Use scientific names of plants. Lis	st all spe	cies in the	plot.							
		Absolute	Dominant		Dominance Test worksheet:						
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)						
1.					Total Number of Dominant						
2.					Species Across All Strata: 4 (B)						
3.					Percent of dominant Species						
4.					That Are OBL, FACW, or FAC: 75.0% (A/B)						
5.	Total Course	0			Prevalence Index worksheet:						
_	Total Cover:	of Total Cover		Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 0 x 1 = 0						
1.	Empetrum nigrum	_50_	✓	FAC	FACW Species 19 x 2 = 38						
2.	Vaccinium uliginosum	20	✓	FAC	FAC Species 75 x 3 = 225						
3.	Salix pulchra	15		FACW	FACU Species <u>6.1</u> x 4 = <u>24.4</u>						
4.	Loiseleuria procumbens	5		FACU	UPL Species <u>7.2</u> x 5 = <u>36</u>						
5.	Vaccinium vitis-idaea	5		FAC	Column Totals: <u>107.3</u> (A) <u>323.4</u> (B)						
6.	Luetkea pectinata	3		UPL	Prevalence Index = B/A = 3.014						
7.		0									
8.					Hydrophytic Vegetation Indicators:						
					✓ Dominance Test is > 50%						
10.					☐ Prevalence Index is ≤3.0						
Her	Total Cover: b Stratum 50% of Total Cover:		of Total Cove		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Artemisia globularia	4	V	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Rubus chamaemorus		✓	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
3.	Carex atrofusca			FACU	be present, unless disturbed or problematic.						
4.	Anemone parviflora Anthoxanthum monticola ssp. alpinum	0.1		FACU	Plot size (radius, or length x width)						
5.	Education and the second secon	0.1		UPL UPL	% Cover of Wetland Bryophytes						
6. 7.	Gentianella propinqua	0.1		FACU	(Where applicable)						
					% Bare Ground						
					Total Cover of Bryophytes						
		0			Hydrophytic						
	Total Cover:		Vegetation								
	50% of Total Cover: 4.		of Total Cover	1.860	Present? Yes No						
Rem	arks:										

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SOIL Sampling Point: SW13_T123_08

	ion: (Describe to t	he depth nee	ded to docum	ent the ind		firm the abs		ators)				
Depth (inches)	Color (moi	st)	%	Color (m	ioist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1		<u>, </u>							Fibric Organics			
1-3									Hemic Organics			
3-13		3/2	90	7.5YR	3/2	10			Loamy Sand	little bands of sand		
<u>J-13</u>	1016	- J/L		7.31K		10		141	Loanly June	IITTIE Dalius OI Saliu		
								-				
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:						Hydric So	oils:³ 				
Histosol or	r Histel (A1)								Alaska Gleyed Without Hi	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen	Sulfide (A4)			Alask	ka Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	rs)		
	Surface (A12)			3 ∩ne ir	edicator of	hydronhyt	ic vegetatio	n one nrin	mary indicator of wetland h	vdrology		
Alaska Gle							e position r			ydrology,		
Alaska Red				4 Give d	letails of co	lor change	e in Remark	s				
	eyed Pores (A15)					Z III Kemark					
Restrictive Layer (if present): Type: seasonal frost								Hydric Soil Present	? Yes○ No •			
Depth (inch									rryane son rresent	163 0 110 0		
Remarks:												
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:							Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)							Water Stained Leaves (B9)			
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				y (B7)	Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)					_	f Reduced Iron (C4)		
Water Mai				Hydrogen Sulfide Odor (C1)					☐ Salt Depos			
Sediment Deposits (B2)				Dry-Season Water Table (C2)						Stressed Plants (D1)		
☐ Drift Depo				Other (Explain in Remarks)						c Position (D2)		
	or Crust (B4)								✓ Shallow Aq			
☐ Iron Depo	` ,									raphic Relief (D4)		
	oil Cracks (B6)								☐ FAC-neutra	Trest (D5)		
Field Observa Surface Water		Yes 〇	No •	De	epth (inches	-).						
		Yes O				•		Motion	I III Drocon	t? Yes O No 💿		
Water Table P		_	_	De	epth (inches	s):		Wetia	nd Hydrology Presen	t? yes ∪ No ⊕		
Saturation Pre (includes capil		Yes O	No 🕑	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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