WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-12
Applic	ant/Owner: Alaska Energy Authority		Sampling Point: SW12_T99_03		
	gator(s): SLI, KMK		Landform (hill	side, terrac	ee, hummocks etc.): Alluvial fan
	relief (concave, convex, none): flat		Slope: 0.0		
	gion : Southcentral Alaska	l at :			
		Lat	62.685058245	00	
	ap Unit Name:			<u> </u>	NWI classification: PSS1B
Are \	regetation ☐ , Soil ☑ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sho	significant naturally p wing sar	ly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No		Is	the Sam	pled Area
	Hydric Soil Present? Yes No			thin a W	-
	Wetland Hydrology Present? Yes No)			
	earks: alluvial fan a mix of PSS1B as characterized by				
		Absolute		Indicator	Dominance Test worksheet:
1.	e Stratum	% Cove	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.		- 0	- 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		- 0	- 🗒		
	Total Cover		-		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sai	oling/Shrub Stratum 50% of Total Cover:	- % of Total Cover:	0	001.0	
	Vaccinium uliginosum	- 5	- 📙	FAC	FACW Species 23 x 2 = 46 FAC Species 80 x 3 = 240
	Salix pseudomonticola		- V	FAC	FACU Species 3 x 4 = 12
3. 4.	Salix glauca	•	- <u>v</u>	FAC	UPL Species $0 \times 5 = 0$
5.		0	- 📙		
6.			- 🗀		Column Totals: <u>116</u> (A) <u>308</u> (B)
7.			- <u>П</u>		Prevalence Index = B/A = 2.655
8.		- 0	-		Hydrophytic Vegetation Indicators:
9.		0			Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
He	Total Cover b Stratum 50% of Total Cover:		- - % of Total Cover	: 16	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum fluviatile	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Arctagrostis latifolia		✓	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Comarum palustre	_		OBL	be present, unless disturbed or problematic.
4.	Trientalis europaea	- 1		FACU	Plot size (radius, or length x width) 5m
5.	Parnassia palustris	1	_	FACW	Plot size (radius, or length x width) <u>5m</u> % Cover of Wetland Bryophytes
6.	Rubus chamaemorus	2	. 📙	FACW	(Where applicable)
7.	Cornus canadensis	2		FACU	% Bare Ground
8.					Total Cover of Bryophytes <u>65</u>
9.			-		
10		0	. \square		Hydrophytic
10.	Total Cover	: 36			Vegetation
10.	50% of Total Cover:	-	- % of Total Cover:	7.2	Present? Yes • No •

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SOIL Sampling Point: SW12_T99_03

	ion: (Describe to t	the depth ne	eded to docur	ment the inc		nfirm the abs		ators)				
Depth (inches)	Color (moi	ist)		Color (n	noist)	%	% Type ¹		Texture	Remarks		
0-1.5					,		-7.	_Loc_ ²	Fibric Organics			
1.5-5	2.5Y	4/2	60	5YR	3/2	40		PL	Sandy Loam			
5-13	10Y	3/0		5YR	3/2	25	C	PL	Coarse Sandy Loam	lenses of fibric organic material buried		
13-18									Fibric Organic	buried		
	-											
									-			
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	tors for Pro	oblematio	Hydric So	oils: ³				
Histosol o	r Histel (A1)			Alas	ka Color Ch				Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	pedon (A2)			Alaska Alpine swales (TA5)					Underlying Layer			
✓ Hydrogen	Sulfide (A4)			Alas	ska Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	ss)		
	k Surface (A12)			3 ∩no i	ndicator of	hydrophyt	ic vegetatio	n one prir	mary indicator of wetland h	vydralogy		
Alaska Gle	, , ,				appropriate					lydi ology,		
Alaska Red				4 Give	details of co	olor change	e in Remark	·c				
☐ Alaska Gle	eyed Pores (A15)		OIVC (- Change	e iii Remark					
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes 💿 No 🔾		
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	ntors (any one is	s sufficient	:)						Water Stained Leaves (B9)			
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)			
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation	Marl Deposits (B15)						f Reduced Iron (C4)					
	Water Marks (B1)					fide Odor	(C1)		☐ Salt Depos			
Sediment Deposits (B2)					ry-Season W					Stressed Plants (D1)		
☐ Drift Depo	. ,			☐ Ot	ther (Explair	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)									juitard (D3)		
☐ Iron Depo	. ,									graphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra	ii Test (D5)		
Field Observa Surface Water		Ves C	No ●	D.	epth (inches	٠١٠						
			No O			•		Wotla	l Uvdvelagy Drocon	t? Yes • No O		
Water Table F				De	epth (inches	5): 8		Wetia	nd Hydrology Presen	t? yes ♥ No ∪		
Saturation Pre (includes capi		Yes 🖭	No O	De	epth (inches	s): 5						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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