WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	et/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 05-Jul-13
Applic	ant/Owner: Alaska Energy Authority		_		Sampling Point: SW13_T136_03
	igator(s): SLI, SCB		Landform (hil	lside, terrac	ce, hummocks etc.): Toeslope
	relief (concave, convex, none): none		Slope:	% / 7.5	- ·
	gion : Southcentral Alaska	l at			Long.: -149.155198693 Datum: NAD83
		_	02.93921010	20	
	ap Unit Name:			<u> </u>	NWI classification: PSS1B
	imatic/hydrologic conditions on the site typical for the	_ •		● No ○	(If no, explain in Remarks.)
	Vegetation , Soil , or Hydrology		antly disturbed?		ionnai oli odinotanoco present:
Are	Vegetation , Soil , or Hydrology	_ naturali	y problematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map s	showing s	ampling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes N	lo O			
	Hydric Soil Present? Yes ● N	lo 🔾			pled Area
	-	lo 🔾	W	ithin a W	/etland? Yes ● No ○
Rem	arks:				
VEG	ETATION - Use scientific names of plants	s List all s	species in the	plot.	
	- Goe solentine names of plants	Absolu		Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Cov		Status	Number of Dominant Species
1.			0		That are OBL, FACW, or FAC: 2 (A)
2.			0		Total Number of Dominant Species Across All Strata: 4 (B)
3.			0		Percent of dominant Species
4.			0		That Are OBL, FACW, or FAC: 50.0% (A/B)
5.			0		Prevalence Index worksheet:
	Total Co	over:	_		Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	02	20% of Total Cover	0	OBL Species x 1 =
1.	Alnus viridis	8	30	FAC	FACW Species 4 x 2 = 8
2.			0		FAC Species <u>89</u> x 3 = <u>267</u>
3.			0		FACU Species 23.1 x 4 = 92.40
4.			<u> </u>		UPL Species <u>0</u> x 5 = <u>0</u>
5.			<u> </u>		Column Totals: <u>116.1</u> (A) <u>367.4</u> (B)
6.			<u> </u>		Prevalence Index = B/A =3.165_
7.			0		Trevalence mack = B/A =
8.			<u> </u>		Hydrophytic Vegetation Indicators:
9.			0		☐ Dominance Test is > 50%
10.			<u>0</u>		☐ Prevalence Index is ≤3.0
Не	Total Co rb Stratum 50% of Total Cover:) 20% of Total Cove	r: 16	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Dryontorio evpenes		.5	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Veratrum viride		5	FAC	Indicators of hydric soil and wetland hydrology must
3.	Heracleum maximum		2	FACU	be present, unless disturbed or problematic.
4.				FACW	
5.	Streptopus amplexifolius		1	FACU	Plot size (radius, or length x width) <u>5x10m</u>
6.	Geranium erianthum		.1	FACU	% Cover of Wetland Bryophytes (Where applicable)
7.	Gymnocarpium dryopteris		5	FACU	% Bare Ground 30
	Equisetum arvense		2	FAC	Total Cover of Bryophytes 10
8.			2 🗌	FACW	
8. 9.	Viola palustris			TACW	
			2	FAC	Hydrophytic
9.		over: <u>36</u> .	2 1	FAC	Hydrophytic Vegetation Present? Yes No

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13 T136 03

Profile Descript	ion: (Describe to	the depth ne	eded to docume	nt the inc	dicator or con	firm the abs	sence of indic	ators)		, rome. 01113_1130_03			
Depth		Matrix				ox Featu							
(inches)	Color (mo	ist)	%	Color (m	noist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks			
0-11	10YR	2/2	100						Loam	v.high organic content			
11-17	11-17 5Y 3/2 90				4/6	10	С	PL	Silty Clay Loam	compacted w ang fine gr. till?			
										-			
						-							
						-		-					
										. ———			
¹Type: C=Co	ncentration. D=	Depletion.					_		annel. M=Matrix				
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
Histosol o	r Histel (A1)		[_	ka Color Ch		-		Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epip	pedon (A2)		Ĺ		Alaska Alpine swales (TA5)				Underlying Layer				
	Sulfide (A4)		L	Alas	ka Redox W	ith 2.5Y F	lue	L	Other (Explain in Remark	(S)			
	k Surface (A12))		3 ∩na ir	ndicator of I	hydrophyt	ic vegetatio	n one nrir	mary indicator of wetland h	ovdrology			
	eyed (A13)			and an	appropriate	e landscap	e position r	must be pro	esent	rydrology,			
✓ Alaska Re	. ,			4 Give	details of co	lor change	in Remark	(S					
☐ Alaska Gle	eyed Pores (A1	5)		OIVC C	recails or co	ior change	z III recinari						
Restrictive Lay	er (if present):												
	npacted si cl lo								Hydric Soil Present	? Yes • No O			
Depth (inc	hes): 11												
_	content in 0-1	_	_	·									
HYDROLO	GY												
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)			
Primary Indica	ators (any one	is sufficient)						Water Stai	ned Leaves (B9)			
Surface Water (A1)				In	Inundation Visible on Aerial Imagery (B7)				Drainage F	Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposits (B15)						of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					☐ Salt Depos				
	Deposits (B2)				y-Season W					Stressed Plants (D1)			
☐ Drift Dep				∐ Ot	her (Explair	in Rema	rks)			ic Position (D2)			
	or Crust (B4)								✓ Shallow Ac				
☐ Iron Depo	osits (B5) Soil Cracks (B6)									graphic Relief (D4) al Test (D5)			
Field Observe									FAC-fieud	ii Test (D3)			
Surface Wate		Yes O	No •	De	epth (inches	:).							
Water Table I			No •			•		Wotla	nd Hydrology Presen	it? Yes • No O			
Saturation Pro				De	epth (inches	5):		Wella	na nyarology Presen	it: les 🙂 NO 🗢			
(includes cap		Yes 🕑	No O	De	epth (inches	s): 0							
Describe Reco	rded Data (stre	am gauge,	monitor well,	aerial p	hotos, prev	ious inspe	ction) if ava	ailable:					
Remarks:													
sat at surface. water perched atop compacted silty clay loam at 11in bgs. sink to ankles in sat organics, boot tracks fill w water.													

U.S. Army Corps of Engineers Alaska Version 2.0