WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City	Matanusk	xa-Susitna Borough Sampling Date: 04-Aug-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T119_01		
	gator(s): BAB	nillside, terrac	ce, hummocks etc.): Mountainslope				
-	elief (concave, convex, none): rolling						
	ion : Interior Alaska Mountains	l at ·	 62.8166100	102	Long.: -147.782940035 Datum: NAD83		
_	p Unit Name:						
			0 V-	es No	NWI classification: Upland		
	natic/hydrologic conditions on the site typical for this	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○		
		-	ntly disturbed?		iormai oireametanees present:		
Are v	egetation . , Soil . , or Hydrology	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map sho	owing sa	impling poir	nt locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No	\supset					
	Hydric Soil Present? Yes ○ No (lacksquare		s the Sam			
	Wetland Hydrology Present? Yes O No	lacksquare	\	within a Wetland? Yes ○ No ●			
Rema							
VEGE	TATION - Use scientific names of plants. L	ist all sr	pecies in th	e plot.			
	- Coc solentine names of plants.	Absolut		t Indicator	Dominance Test worksheet:		
Tree	e Stratum	% Cove			Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:5(A)		
2.					Total Number of Dominant Species Across All Strata: 7 (B)		
3.		_			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 71.4% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cove	r: <u>0</u>	_		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cov	er: <u>0</u>	OBL Species 0 x 1 = 0		
1.	Betula nana	7	✓	FAC	FACW Species 3.1 x 2 = 6.2		
	Arctous ruber			FAC	FAC Species 31 x 3 = 93		
3.				FAC	FACU Species :####: x 4 = 32.80		
4.	Phododondron tomontonum			FACW	UPL Species 12.1 x 5 = 60.50		
5.	Vaccinium uliginosum			FAC			
6.	Vaccinium vitis-idaea	1		FAC	Column Totals: <u>54.4</u> (A) <u>192.5</u> (B)		
	Dryas ajanensis		V	UPL	Prevalence Index = B/A = 3.539		
8.	Loiseleuria procumbens			FACU	Hydrophytic Vegetation Indicators:		
9.	Salix stolonifera	1		UPL	✓ Dominance Test is > 50%		
10.					☐ Prevalence Index is ≤3.0		
	Total Cove	r: 40			Morphological Adaptations (Provide supporting data in		
Her	b Stratum 50% of Total Cover:	20 2	0% of Total Cov	/er: 8	Remarks or on a separate sheet)		
1.	Carex podocarpa	8	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Anthoxanthum monticola ssp. alpinum	5	✓	UPL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Campanula lasiocarpa	1		UPL	be present, unless disturbed or problematic.		
4.	Calamagrostis stricta	0.1	<u> </u>	FACW	Plot size (radius, or length x width)		
5.	Antennaria friesiana			UPL	% Cover of Wetland Bryophytes		
6.	Anemone narcissiflora	0.1		FACU	(Where applicable)		
7.	Pedicularis capitata			FACU	% Bare Ground15		
8.			-		Total Cover of Bryophytes		
			- =				
10.					Hydrophytic		
				or: 3.00	vegetation Present? Yes No		
	50% OF TOTAL COVER:	<u> </u>	o/o UI TULAI COV	cı. <u>2.88</u>	1.000.16.		
1. 2. 3. 4. 5. 6. 7. 8. 9.	Stratum Carex podocarpa Anthoxanthum monticola ssp. alpinum Campanula lasiocarpa Calamagrostis stricta Antennaria friesiana Anemone narcissiflora Pedicularis capitata	20 2 8 5 1 0.1 0.1 0.1 0.1 0.1 1.4.4	O% of Total Cov	FAC UPL UPL FACW UPL FACU FACU	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 20m 20m 20m 20m 20m 20m 20m 20m 20m 2		

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SOIL Sampling Point: SW13_T119_01

5 61 5	/D 11 1				c	6: 1:			,		
Profile Descripti		the depth ne Matrix	eded to docu	ment the indicator or co	nfirm the at dox Featu		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-2	Color (IIIC	istj	100	Color (Illoist)		Туре	LUC	Hemic Organics	semi ang to ang gravel and cobbles		
2-6	10YR	3/3	100					Loam	semi ang gravel and cobbles		
								Coarse Sand			
6-16	2.5Y	4/3	100					Coarse Sand	ang sand and gravel w few cobbles		
						-					
¹Type: C=Cor	centration. D	=Depletion	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	c Hydric So	oils: ³				
	Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	` '			Alaska Alpine s		-	_	Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y	Hue		Other (Explain in Remarl	(S)		
	Surface (A12)									
Alaska Gle				³ One indicator of and an appropria				mary indicator of wetland h	nydrology,		
Alaska Red	lox (A14)				,		•	esent			
Alaska Gle	yed Pores (A1	5)		⁴ Give details of c	olor chang	je in Remark	is .				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies):										
Remarks:											
no hydric soil in	dicators obser	ved									
,											
HADBOLO	CV										
HYDROLO Wetland Hydi		tore						Cocondon, Indi	cators (ture or more are required)		
Primary Indica			-)						cators (two or more are required)		
		is sufficient	-,	Inundation V	/icible on /	Vorial Image	n. (B7)	Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
☐ Surface Water (A1)☐ High Water Table (A2)				Sparsely Veg		-			hizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposit		neave Sanac	JC (DO)		of Reduced Iron (C4)			
Water Marks (B1)			Hydrogen Su	. ,	(C1)		Salt Depos	` '			
Sediment Deposits (B2)				Dry-Season					Stressed Plants (D1)		
Drift Deposits (B3)				Other (Expla				Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)			_ ` ` '		,		Shallow Ac	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	it? Yes O No 💿		
Saturation Pre	sent?	Voc	No •		•						
(includes capil	lary fringe)	ies C	NO ©	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	rology indicate	ors observe	ed								

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