WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 06-Aug-13							
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T161_08							
	gator(s): BAB		Landform (hill	side, terrac	ee, hummocks etc.): Swale							
	elief (concave, convex, none): convex		Slope:		B ° Elevation: 124							
	ion: Interior Alaska Mountains	L at :	· · —									
		Lat	03.333940037									
	p Unit Name:			<u> </u>	NWI classification: Upland							
Are V	egetation , Soil , or Hydrology	significant naturally p wing sar	ly disturbed? roblematic?	(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 Signature No Signa												
	Hydric Soil Present? Yes O No		within a Wetland? Yes ○ No •									
Rema	Wetland Hydrology Present? Yes No)	VVI	itiiiii a vv	etialia: 100 Ho							
	ETATION -Use scientific names of plants. L	Absolute	Dominant	Indicator	Dominance Test worksheet:							
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)							
1.			. 📙		Total Number of Dominant							
2.					Species Across All Strata:5 (B)							
3.					Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)							
5.	7.110	0	. \square		Prevalence Index worksheet:							
	Total Cover		•		Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species							
1.	Luetkea pectinata	25	✓	UPL	FACW Species <u>18</u> x 2 = <u>36</u>							
2.	Salix polaris	- 10	✓	FACW	FAC Species <u>17.1</u> x 3 = <u>51.30</u>							
3.					FACU Species x 4 =28							
4.					UPL Species <u>25.1</u> x 5 = <u>125.5</u>							
5.					Column Totals: <u>67.2</u> (A) <u>240.8</u> (B)							
6.		•										
7.		0			Prevalence Index = B/A = 3.583							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			✓ Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
Her	Total Cover b Stratum 50% of Total Cover:		% of Total Cover	: <u>7</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
1.	Carex podocarpa	2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Sanguisorba canadensis	8	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must							
3.	Artemisia norvegica	4		FACU	be present, unless disturbed or problematic.							
4.	Trisetum spicatum			FAC	Plot size (radius, or length x width) 10m							
5.	Luzula parviflora	5	✓	FAC	Plot size (radius, or length x width)							
6.	Campanula lasiocarpa	0.1		UPL	(Where applicable)							
7.	Sibbaldia procumbens	2		FACU	% Bare Ground2							
8.	Rhodiola integrifolia	8	. <u>~</u>	FAC	Total Cover of Bryophytes							
9.	Festuca rubra	0.1		FAC								
10.	Oxyria digyna	1	. \square	FACU	Hydrophytic							
	Total Cover 50% of Total Cover:		6 of Total Cover:	6.44	Vegetation Present? Yes ● No ○							
Rem				6.44	Vegetation							

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T161_08

De-Sie Descriptio	· (Describe to	· donth n	-1-1 to door		firm the al		L	· -	110mc. 5W15_1101_00		
		the depth ne	eded to docu	ment the indicator or co	onfirm the at dox Featu		cators)				
Depth (inches)	Color (mo			Color (moist)	w	Type ¹	Loc ²	Texture	Remarks		
0-2	COIOT (TITLE	JISLJ	100	Coloi (moise)	-70	Type	LUC	Fibric Organics			
2-7	10YR	3/3	100					Silt Loam	few semi ang gravel		
								Loamy Sand			
7-11	10YR	3/3	100						lots of semi ang gravel		
11-17	10YR	3/3	100					Sandy Loam	few semi ang gravel		
									-		
¹Type: C=Con	centration. D	=Depletion	. RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	roblemati	ic Hydric S	oils:				
	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	. ,			Alaska Alpine s	swales (TA	\ 5)	Underlying Layer				
	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remark	(S)		
Thick Dark	Surface (A12)		2.5							
Alaska Gle	yed (A13)			One indicator of and an approprial				nary indicator of wetland hesent	lydrology,		
Alaska Red	, ,						•				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	Olor Criarry	је и кешак	(S 				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes O No 💿		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators obse	rved									
HYDROLO	GY										
Wetland Hydr		ators:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficien	t)						ned Leaves (B9)		
Surface W	ater (A1)			☐ Inundation V	/isible on <i>F</i>	Aerial Image	ry (B7)	(B7) Drainage Patterns (B10)			
High Water Table (A2)				☐ Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit	s (B15)			Presence o	of Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su	ılfide Odor	r (C1)		Salt Depos	its (C5)		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				U Other (Explain	in in Rema	arks)		_ '	ic Position (D2)		
l — -	or Crust (B4)								quitard (D3)		
☐ Iron Depo	` '								graphic Relief (D4)		
	oil Cracks (B6)	1						✓ FAC-neutra	il Test (D5)		
Field Observa		Vac (No •	Donth (inche	1.						
Surface Water			No 💿	Depth (inche	,		347-41-	1.11 - door looms Dunname	W (A) No (
Water Table P				Depth (inche	es):		Wetiai	nd Hydrology Presen	t? Yes ⊙ No ○		
Saturation Pre (includes capil		Yes C	No •	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
Remarks.											
1											

U.S. Army Corps of Engineers Alaska Version 2.0