WETLAND DETERMINATION DATA FORM - Alaska Region

Proje	ct/Site: Susitna-Watana Hydroelectric Project		Borough/0	City: M	latanusk	a-Susitna Borough Sampling Date: 02-Aug-13			
Applio	cant/Owner: Alaska Energy Authority					Sampling Point: SW13_T162_03			
	tigator(s): WAD, RWM		Landforn	form (hillside, terrace, hummocks etc.): Hillside					
	relief (concave, convex, none): planar		Slope:		. /	° Elevation: 1555			
	egion : Interior Alaska Mountains	l at ·	- · - 63 1275	.127555966 Long.: -148.105082631 Datum: W					
		Lut	03.12730						
	lap Unit Name:			Yes ①	No O	NWI classification: Upland			
	imatic/hydrologic conditions on the site typical for this ti	-				(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○			
			tly disturbe			official official focal present:			
Are	Vegetation . , Soil . , or Hydrology .	naturally	oroblemati	IC'?	(It nee	ded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling p	oint lo	cations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C								
	Hydric Soil Present? Yes No (Is the Sampled Area					
	Wetland Hydrology Present? Yes No			within a Wetland? Yes ○ No ●					
Day									
Rei	marks: planar slope mostly continuous vegetation mat	•							
VEG	ETATION - Use scientific names of plants. Li	ist all sp	ecies in	the plo	ot.				
	'					Dominance Test worksheet:			
Tr	ee Stratum	Absolute % Cove		nant In es? S	idicator Status	Number of Dominant Species			
1.		0		<u> </u>		That are OBL, FACW, or FAC: (A)			
2.		0				Total Number of Dominant Species Across All Strata: 2 (B)			
3.						Percent of dominant Species			
4.		0	_ [That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0				Prevalence Index worksheet:			
	Total Cover	: 0	_	_		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	Cover: _	0	OBL Species 0 x1= 0					
1	Salix polaris	45	T.	/	FACW	FACW Species 45 x 2 = 90			
	Drang getenatale				JPL	FAC Species 38 x 3 = 114			
3.		-			JI L	FACU Species 18 x 4 = 72			
4.						UPL Species 8 x 5 = 40			
5.				<u> </u>					
6.				_		Column Totals: <u>109</u> (A) <u>316</u> (B)			
7.						Prevalence Index = B/A = 2.899			
8.		0				Hydrophytic Vegetation Indicators:			
9.		0				✓ Dominance Test is > 50%			
10.		0				✓ Prevalence Index is ≤3.0			
	Total Cover					Morphological Adaptations ¹ (Provide supporting data in			
He	erb Stratum 50% of Total Cover:	25 20	% of Total	Cover:	10	Remarks or on a separate sheet)			
1.	Carex microchaeta	35	_	∠ _F	FAC	Problematic Hydrophytic Vegetation (Explain)			
١.		2	_ [<u>_</u>	UPL	¹ Indicators of hydric soil and wetland hydrology must			
2.	Campanula lasiocarpa			F	FACU	be present, unless disturbed or problematic.			
	Campanula lasiocarpa Artemisia norvegica	3							
2.	Artemisia norvegica	2			FAC				
2. 3.	Artemisia norvegica Poa arctica Luzula arcuata	3 2 11		_ <u>F</u>	FACU	Plot size (radius, or length x width)			
2. 3. 4.	Artemisia norvegica Poa arctica Luzula arcuata Antennaria monocephala	2			FACU UPL				
2. 3. 4. 5. 6. 7.	Artemisia norvegica Poa arctica Luzula arcuata Antennaria monocephala Anthoxanthum monticola ssp. alpinum	3 2 11 1 1		F	FACU UPL FACU	Plot size (radius, or length x width) % Cover of Wetland Bryophytes			
2. 3. 4. 5. 6. 7.	Artemisia norvegica Poa arctica Luzula arcuata Antennaria monocephala Anthoxanthum monticola ssp. alpinum Sedum rosea	3 2 11 1 1			FACU UPL FACU FAC	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable)			
2. 3. 4. 5. 6. 7. 8. 9.	Artemisia norvegica Poa arctica Luzula arcuata Antennaria monocephala Anthoxanthum monticola ssp. alpinum Sedum rosea Sibbaldia procumbens	3 2 11 1 1 1 3			FACU UPL FACU	Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground			
2. 3. 4. 5. 6. 7.	Artemisia norvegica Poa arctica Luzula arcuata Antennaria monocephala Anthoxanthum monticola ssp. alpinum Sedum rosea Sibbaldia procumbens	3 2 11 1 1 1 3 0			FACU UPL FACU FAC	Plot size (radius, or length x width)			
2. 3. 4. 5. 6. 7. 8. 9.	Artemisia norvegica Poa arctica Luzula arcuata Antennaria monocephala Anthoxanthum monticola ssp. alpinum Sedum rosea Sibbaldia procumbens	3 2 11 1 1 1 3 0 59		F F F F	FACU UPL FACU FAC	Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes			

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SOIL Sampling Point: SW13_T162_03

Profile Description: (Describe to the depth needed to a Matrix					nfirm the ab		ators)					
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2	COIOI (IIIC	ist)	100	Color (Illoist)	- 70	Туре	LUC	Fibric Organics				
2-16	10YR	3/3	100					Sand	-			
								Juliu				
					-			-				
					-							
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	d Matrix ² Location				nnel. M=Matrix	_			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³					
Histosol or Histel (A1) Alaska Color Change (TA4)						1)4	Alaska Gleyed Without Hue 5Y or Redder					
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	, 5 ,			
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remarks)				
☐ Thick Dark	Surface (A12)										
Alaska Gle	yed (A13)							nary indicator of wetland h	ydrology,			
Alaska Rec				and an appropria	te ianusca _k	e position n	nust be pre	esent				
	yed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):							•				
Remarks:												
no hydric soil in	idicators obser	ved										
HYDROLO	GY											
Wetland Hydi		tors:						Secondary Indic	cators (two or more are required)			
Primary Indica	tors (any one	is sufficient)						Water Stained Leaves (B9)				
Surface Water (A1)				☐ Inundation V	isible on A	erial Imager	y (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg		_		Oxidized R	hizospheres along Living Roots (C3)			
	Saturation (A3) Marl Deposits (B15)							Presence o	f Reduced Iron (C4)			
☐ Water Mai	Water Marks (B1) Hydrogen Sulfide Odor (C1)					(C1)		Salt Depos	its (C5)			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)			
☐ Drift Depo				Other (Expla				Geomorphi	c Position (D2)			
Algal Mat	Algal Mat or Crust (B4)											
☐ Iron Depo									raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutra				
Field Observa	ations:											
Surface Water	Present?	Yes 🔾	No 💿	Depth (inche	es):							
Water Table P	Procent?	Vec (No 💿		•		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre				Depth (inche	es):		Weda	na rryarology r resen	ti les a No a			
(includes capil		Yes 🔾	No 💿	Depth (inche	es):							
Describe Record	ded Data (stre	am gauge,	monitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:					
Remarks:												

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