WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Jul-13						
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T121_02						
Investigator(s): JGK Landform (hillside, terrace, hummocks etc.): Footslope											
Local	relief (concave, convex, none): hummocky		Slope:		3 ° Elevation: 435						
Subre	gion : Southcentral Alaska	Lat ·	62.798074007								
	ap Unit Name:										
			0 V	No ○	NWI classification: Upland						
Are \	matic/hydrologic conditions on the site typical for this '/egetation , Soil , or Hydrology , Soil , or Hydrology WARY OF FINDINGS - Attach site map sho	significantly naturally pr	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) Iormal Circumstances Present? Yes ● No ○ eded, explain any answers in Remarks.)						
	Hydrophytic Vegetation Present? Yes O No	•									
	Hydric Soil Present? Yes No	•	Is the Sampled Area								
	Wetland Hydrology Present?		within a Wetland? Yes ○ No •								
Rem			<u></u>								
	ETATION - Use scientific names of plants. L	ist all spe Absolute % Cover	Dominant	•	Dominance Test worksheet: Number of Dominant Species						
	Picoa glauca	15	<u> </u>	FACU	That are OBL, FACW, or FAC: (A)						
	But the constant and			FACU	Total Number of Dominant Species Across All Strata: 4 (B)						
3.				17100							
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)						
5.					Durantana Tudan madaharti						
	Total Cove	r: <u>18</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sap	oling/Shrub Stratum 50% of Total Cover:	9 20%	of Total Cover	3.6	OBL Species $0 \times 1 = 0$						
1	Spiroog atayonii	10		FACU	FACW Species 0 x 2 = 0						
	Spiraea stevenii Alnus viridis			FACO	FAC Species 70 x 3 = 210						
	Ondere annuling			FACU	FACU Species 105 x 4 = 420						
4.	Sorous scopulina			TACO	UPL Species 0 x 5 = 0						
5.											
6.					Column Totals: <u>175</u> (A) <u>630</u> (B)						
7.		0			Prevalence Index = B/A = 3.600						
8.					Hydrophytic Vegetation Indicators:						
9.		0			Dominance Test is > 50%						
10.		0			☐ Prevalence Index is ≤3.0						
	Total Cove b Stratum 50% of Total Cover:		6 of Total Cover	: 10.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Cornus suecica	25	✓	FAC	Problematic Hydrophytic Vegetation (Explain)						
2.	Spinulum annotinum			FACU	¹ Indicators of hydric soil and wetland hydrology must						
3.	Rubus arcticus			FAC	be present, unless disturbed or problematic.						
4.	Trientalis europaea			FACU	Plot size (radius, or length x width)						
5.	Dryopteris expansa			FACU	% Cover of Wetland Bryophytes						
		_			(Where applicable)						
					% Bare Ground <u>10</u>						
					Total Cover of Bryophytes5						
		$ \frac{0}{0}$									
10.	Tetal Cove		Hydrophytic								
1	Total Cove		of Total Covers	21	Vegetation Present? Yes ○ No ●						
	50% of Total Cover:	52.5 20%	OF TOTAL COVER		11030110.						

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SOIL Sampling Point: SW13_T121_02

JUIL								Sampling	Point: 3W13_1121_02
Profile Description			eeded to docu	ment the indicator or co			ators)		
Depth	Matrix			Redox Features				_	
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
0-5			100					Fibric Organics	
5-6	7.5YR	5/2	100					Silty Clay Loam	
6-11	7.5YR	2.5/2	100					Silt Loam	
11-20	10YR	3/2	100					Silty Clay Loam	
	-				-				
17		Daulatian	- DM D-d	ced Matrix ² Location	. DI Da	- Lining DC	Doot Cho	and M. Matrix	
- Type: C=Con	icentration. D	=Depletion	. RM=Redu					innei. M=Matrix	
Hydric Soil In				Indicators for Pr		4	oils: ¯	1	
	Histel (A1)			Alaska Color Cl		-		Alaska Gleyed Without Hu Underlying Layer	e 5Y or Redder
Histic Epip				Alaska Alpine s				Other (Explain in Remarks	
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remarks	5)
	Surface (A12))		³ One indicator of	hydrophy	tic vegetatio	n, one prim	nary indicator of wetland hy	drology,
Alaska Gle				and an appropriat	e landscap	pe position r	must be pre	esent	
Alaska Red	yed Pores (A1	5)		4 Give details of co	olor chang	e in Remark	s		
Restrictive Laye	r (if present):								
Type:	00)1							Hydric Soil Present?	Yes O No 💿
Depth (inch	es):								
Remarks:									
no hydric soil in	dicators								
HYDROLO	GY								
Wetland Hydr								Secondary Indica	ators (two or more are required)
Primary Indicat	tors (any one	is sufficien	t)						ed Leaves (B9)
Surface W	. ,			Inundation V		_			atterns (B10)
	High Water Table (A2) Sparsely Vegetated Concave Surface						ce (B8)		izospheres along Living Roots (C3)
☐ Saturation (A3)				Marl Deposits (B15)					Reduced Iron (C4)
Water Marks (B1)				☐ Hydrogen Su				Salt Deposit	
Sediment Deposits (B2) Dry-Season Wat									Stressed Plants (D1) : Position (D2)
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks) ☐ Algal Mat or Crust (B4)								uitard (D3)
☐ Iron Depo									raphic Relief (D4)
	oil Cracks (B6)							FAC-neutral	
Field Observa									
Surface Water		Yes C	No ●	Depth (inche	s):				
Water Table P		_	No ●	Depth (inche	,		Wetlar	nd Hydrology Present	? Yes O No 💿
Saturation Pre				. ,	•		77 00.01	,	100 0 110 0
(includes capil		Yes C	No 💿	Depth (inche	s):				
Describe Record	ded Data (stre	am gauge	, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:		
Remarks:									
no wetland hydrology indicators									

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