WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 21-Jun-12		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T32_06		
	gator(s): JGK		Landform (hill	orm (hillside, terrace, hummocks etc.): Hillside			
Local r	elief (concave, convex, none): undulating			pe: 17.6 % / 10.0 ° Elevation: 870			
Subrea	ion : Interior Alaska Mountains	Lat.:	62.762939908				
_	p Unit Name:		NWI classification: Upland				
Are clin Are V Are V	natic/hydrologic conditions on the site typical for this tiregetation, Soil, or Hydrology s	significant naturally p ving sar	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)		
	Hydric Soil Present? Yes ○ No ●		Is the Sampled Area				
	Wetland Hydrology Present? Yes No No		w	ithin a W	etland? Yes ○ No •		
	arks:						
Tree	TATION - Use scientific names of plants. Lise Stratum	Absolute % Cover	Dominant		Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.		0	. 📙		Total Number of Dominant		
2.		0	. 📙		Species Across All Strata:3(B)		
3.			. 📙		Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	Tatal Carrent		. \square		Prevalence Index worksheet:		
	Total Cover:		· / of Total Cayon		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species 0 x 1 = 0		
1.	Alnus viridis ssp. crispa	35	. 💆	FAC	FACW Species 1 x 2 = 2		
2.	Vaccinium uliginosum	30	. 💆	FAC	FAC Species		
	Ledum groenlandicum	2	. 📙	FAC	FACU Species 0 x 4 = 0		
	Betula glandulosa		. 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.			. 📙	-	Column Totals: (A)		
6.		0	. 📙		Prevalence Index = B/A = 2.987		
7.					Undership Vosetsking Tudinskage		
8. 9.					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
		0	·		✓ Prevalence Index is ≤3.0		
	Total Cover: b Stratum 50% of Total Cover:	, ,		r: 14.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
	Carex bigelowii	5	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Petasites frigidus			FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.		0			be present, unless disturbed or problematic.		
			. 📙		Plot size (radius, or length x width)		
			. 📙		% Cover of Wetland Bryophytes 0		
			. 📙		(Where applicable)		
					% Bare Ground 0		
			. 📙		Total Cover of Bryophytes 30		
		0			Understadio		
10.					Vegetation		
	50% of Total Cover:		6 of Total Cover	: 1.2	Present? Yes • No O		
	Total Cover: 50% of Total Cover:arks: dominant species very patchily distributed tr	3 20%	6 of Total Cover	: 1.2	Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW12_T32_06

Profile Descripti	ion: (Describe to t	he depth nee	ded to docum	ent the inc		nfirm the abs		ators)				
(inches)	Color (moi	st)	%	Color (m	noist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-4						_			Fibric Organics			
4-7									Hemic Organics			
7-13		2/2	85	5YR	3/4	15		М	Silty Clay	15% fine grit		
									2.7.27	1370 g		
									- <u></u>			
¹Type: C=Coi	ncentration. D=	Depletion.							annel. M=Matrix			
Hydric Soil I	ndicators:						c Hydric So	oils:				
	r Histel (A1)			Alaska Color Change (TA4)					Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	pedon (A2)			☐ Alaska Alpine swales (TA5)					Other (Explain in Remarks)			
	Sulfide (A4)			Alas	ka Redox W	/ith 2.5Y F	lue	_		3)		
	k Surface (A12)			³ One i	ndicator of	hvdrophvt	ic vegetatio	n, one prir	mary indicator of wetland h	vdrology,		
☐ Alaska Gle							e position r			, 5 //		
Alaska Red	. ,			4 Give (details of co	olor change	e in Remark	s				
	eyed Pores (A15)										
Restrictive Laye	er (if present):								Under Call Decemb	? Yes○ No •		
Type: Depth (inch	has).			Hydric Soil Present?						? Yes ○ No •		
Remarks:	nes).											
below 13 inches depth cobbles <4 inches long present												
HYDROLO												
Wetland Hyd	rology Indicat	tors:							Secondary Indi	cators (two or more are required)		
	ators (any one is	sufficient)							Water Stained Leaves (B9)			
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)						f Reduced Iron (C4)		
Water Marks (B1)				☐ Hydrogen Sulfide Odor (C1)					☐ Salt Depos			
☐ Sediment Deposits (B2) ☐ Drift Deposits (B3)				Dry-Season Water Table (C2)						Stressed Plants (D1)		
	osits (B3) or Crust (B4)			Other (Explain in Remarks)						ic Position (D2) juitard (D3)		
Iron Depo								ıraphic Relief (D4)				
`	ioil Cracks (B6)									I Test (D5)		
Field Observa									IAC licado	ii lest (D3)		
Surface Water		Yes 〇	No •	De	epth (inches	s):						
Water Table F			No •			•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		_	_	Dt	epth (inches	5):		WCCIG	ilu riyurology r rese	t: 163 C 110 C		
(includes capi		Yes U	No •	Depth (inches):								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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