WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Aug	g-15					
pplica	nnt/Owner: Alaska Energy Authority				Sampling Point: SW15_T34	0 03					
··· ivestic	gator(s): JGK		Landform (hil	lside, terrac	e, hummocks etc.): Valley bottom	_					
	elief (concave, convex, none): hummocky		- ` Slope: 5.2	% / 3.0							
		l at .	_ = ===================================								
_	ion: Interior Alaska Mountains	Lat.:				G 304					
	p Unit Name:				NWI classification: PSS1B						
Are V Are V	natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology , or Hydrology , soil , or Hydrology , or Hy	significan naturally p	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No (ded, explain any answers in Remarks.) s, transects, important features, etc.	O					
Hydrophytic Vegetation Present? Yes No ○											
	Hydric Soil Present? Yes ● No	0	Is the Sampled Area								
	Wetland Hydrology Present? Yes No	\circ	within a Wetland? Yes ● No ○								
Rema	arks:		<u> </u>								
	ETATION - Use scientific names of plants.	List all sp Absolute % Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species						
1.	e Stratum	_/0 COVE		Status	That are OBL, FACW, or FAC:3	(A)					
2.				-	Total Number of Dominant	(D)					
3.					Species Across All Strata: 3	(B)					
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0%	(A/B)					
5.					1101.070 <u>100.070</u>	(700)					
0.	Total Cove	 er:			Prevalence Index worksheet:						
C			– % of Total Cover	. 0	Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:			: _ 0	OBL Species 0 x1 = 0	_					
1.	Betula nana	35	~	FAC	FACW Species <u>25.1</u> x 2 = <u>50.20</u>	<u></u>					
2.	Vaccinium uliginosum	15	~	FAC	FAC Species <u>58.3</u> x 3 = <u>174.9</u>	<u>'</u>					
3.	Salix pulchra	15	~	FACW	FACU Species 0 x 4 = 0	_					
4.	Rhododendron tomentosum	10	. 🖳	FACW	UPL Species	_					
5.	Vaccinium vitis-idaea	5	. 📃	FAC	Column Totals: <u>83.4</u> (A) <u>225.1</u>	_ (B)					
6.	Empetrum nigrum	3		FAC	Prevalence Index = B/A = 2.699						
7.		0	. \square		Prevalence Index = B/A = 2.699						
8.		0	. 🖳		Hydrophytic Vegetation Indicators:						
9.		0	. 🖳		✓ Dominance Test is > 50%						
		0	. \square		Prevalence Index is ≤3.0						
Her	Total Cove b Stratum 50% of Total Cover:		_ 0% of Total Cove	r: <u>16.6</u>	Morphological Adaptations (Provide supporting Remarks or on a separate sheet)	data in					
1.	Carex bigelowii	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)						
2.	Pedicularis interior	0.1	. \square	FACW	¹ Indicators of hydric soil and wetland hydrology must						
3.	Bistorta plumosa	0.1		FACU	be present, unless disturbed or problematic.						
4.	Calamagrostis canadensis	0.1		FAC	Plot size (radius, or length x width) 10m						
5.		0									
		_			% Cover of Wetland Bryophytes5 (Where applicable)	_					
7.		0			% Bare Ground1						
					Total Cover of Bryophytes 20						
		_				_					
		•			Hydrophytic						
	Total Cove		-		Vegetation						
	50% of Total Cover:	0.2 20	% of Total Cover	:0.08	Present? Yes • No ·						
10.	Total Cove	0 er: 0.4 0.2 20	% of Total Cover	: _0.08_							

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SOIL Sampling Point: SW15_T340_03

	on: (Describe to	the depth ne	eded to docum	nent the ind		firm the ab		ators)					
Depth (inches)	Color (mo		%	Color (m		%	Type ¹	Loc ²		Remarks			
0-3	00.0. (130,			oise,		1750		Mucky Peat				
3-10									Muck	with mineral inclusions			
10-12	7.5YR	2.5/2	80	7.5YR	4/6			PL	Silt Loam	with high organic content			
										with high organic content			
12-20	5Y	4/3		5G	5/1	15	D	PL	Sandy Clay Loam				
+mottle				2.5Y	4/4	10	C	PL					
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix													
Hydric Soil I	ndicators:			Indicate	ors for Pro	blematio	C Hydric So	oils: ³					
Histosol or	Histel (A1)			Alasl	a Color Cha	ange (TA4	4)		Alaska Gleyed Without H	ue 5Y or Redder			
✓ Histic Epip	edon (A2)			Alaska Alpine swales (TA5)					Underlying Layer				
Hydrogen	Sulfide (A4)			Alasł	a Redox W	ith 2.5Y F	lue		Other (Explain in Remark	ss)			
Thick Dark	Surface (A12))		3 One in	dicator of b	y drophy t	ic vogotatio	n one prir	mary indicator of wetland h	wdralogy			
Alaska Gle	yed (A13)						ne position r			iydi ology,			
Alaska Red	. ,			4 Give	etails of col	or change	e in Remark	rc					
✓ Alaska Gle	yed Pores (A15	5)		OIVC C	cturis or co	or charig	e iii Keinari						
Restrictive Laye										- v (a) v (
Type: sandy clay loam									Hydric Soil Present	? Yes ● No O			
Depth (inches): 12													
HYDROLO	GY												
Wetland Hydi	rology Indica	tors:							Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one i	s sufficient)						Water Stained Leaves (B9)				
Surface W	. ,			Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)				
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4) Salt Deposits (C5)				
Water Mai		Hydrogen Sulfide Odor (C1)											
	Sediment Deposits (B2) Drift Deposits (B3)					Dry-Season Water Table (C2)				☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2)			
	or Crust (B4)			Other (Explain in Remarks)					☐ Geomorph Shallow Ac	, ,			
Iron Depo								graphic Relief (D4)					
	oil Cracks (B6)								✓ FAC-neutra				
Field Observa									TAC fledute	in rest (D3)			
Surface Water		Yes C	No •	De	pth (inches	١.							
Water Table P			No O			•		Wetla	nd Hydrology Presen	t? Yes • No O			
				DE	pth (inches): /		Wetia	na riyarology Fresen	it: les 🔾 NO 🔾			
Saturation Present? (includes capillary fringe) Yes No			No O	Depth (inches): 3									
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
Pockets of surfa	ace water 5-7 i	inches deer	o. D3sandy	clay loan	ı. D4humı	nocks							
				,		-							

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