WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Matanuska-Susitna Borough Sampling Date: 18-Aug-15											
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW15_T326_01										
Investig	gator(s): GVF	e, hummocks etc.): Footslope											
Local re	elief (concave, convex, none): hummocky		Slope: 3.5		- · · · · · · · · · · · · · · · · · · ·								
Subrea	ion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84								
•	p Unit Name:				NWI classification: PEM1/SS1B								
	Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
		-	y disturbed?		Iormal Circumstances" present? Yes No								
		-	roblematic?		eded, explain any answers in Remarks.)								
SUMN	MARY OF FINDINGS - Attach site map show		npling point	locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes ● No ○												
	Hydric Soil Present? Yes ● No ○		ıpled Area /etland? Yes ◉ No ◯										
	Wetland Hydrology Present? Yes ● No ○)	Wi	thin a Wetland? Yes ● No ○									
Rema	ırks:												
VEGE	TATION - Use scientific names of plants. Li	st all spe	ecies in the	plot.									
		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.		0			Species Across All Strata: 4 (B)								
3.					Percent of dominant Species								
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.	T				Prevalence Index worksheet:								
	Total Cover:		-	_	Total % Cover of: Multiply by:								
Sapi	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>13.1</u> x 1 = <u>13.1</u>								
1.	Picea mariana	1		FACW	FACW Species 2.2 x 2 = 4.4								
	Betula nana	3	✓	FAC	FAC Species <u>11</u> x 3 = <u>33</u>								
3.	Vaccinium uliginosum	3	✓	FAC	FACU Species 0 x 4 = 0								
	Empetrum nigrum	5	✓	FAC	UPL Species <u>0</u> x 5 = <u>0</u>								
	Andromeda polifolia			FACW	Column Totals: <u>26.3</u> (A) <u>50.5</u> (B)								
6.	Vaccinium oxycoccos	0.1		OBL	Prevalence Index = B/A =1.920_								
1 1	Salix fuscescens	$\frac{0.1}{0.1}$		FACW									
	Rhododendron tomentosum	0.1		FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%								
					✓ Prevalence Index is ≤3.0								
10.	Total Cover:				Morphological Adaptations (P ¹ ovide supporting data in								
Herl	b Stratum 50% of Total Cover:		% of Total Cover	2.66	Remarks or on a separate sheet)								
1.	Carex pauciflora	10	✓	OBL	Problematic Hydrophytic Vegetation (Explain)								
2.	Carex limosa			OBL	¹ Indicators of hydric soil and wetland hydrology must								
3.	Eriophorum angustifolium	1		OBL	be present, unless disturbed or problematic.								
4.	Drosera rotundifolia	1		OBL	Plot size (radius, or length x width) _5x10m								
5.					% Cover of Wetland Bryophytes 98								
					(Where applicable)								
					% Bare Ground								
					Total Cover of Bryophytes								
10.	T-t-I C	13			Hydrophytic								
	Total Cover: 50% of Total Cover:	2.6	Vegetation Present? Yes ● No ○										
_		0.5 20/0											
Rema	arks: continuous sphagnum cover												

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SOIL Sampling Point: SW15_T326_01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)					
Depth (inches)							_Loc_2	Texture	Remarks		
0-7	Color (moi	st)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc	Peat	Remarks		
7-20			100					Mucky Peat			
								Mucky reat			
					-						
								-			
¹Type: C=Co	ncentration. D=	Depletion, F		ed Matrix ² Location	- ——— n: PL=Por	e Linina. RC	=Root Cha	nnel. M=Matrix			
				Indicators for Pr							
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Alaska Color Change (TA4) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder				
Histic Epipedon (A2) Alaska Alpine swales (TA5)						_	Underlying Layer				
_	Sulfide (A4)			Alaska Redox V		-		Other (Explain in Remark	s)		
	k Surface (A12)										
	eyed (A13)							nary indicator of wetland h	ydrology,		
	edox (A14)			and an appropriat	te landscap	e position n	must be pre	esent			
	eyed Pores (A15)		4 Give details of co	olor chang	e in Remark	(S				
Restrictive Lav	ver (if present):										
Type:	- (· p·,							Hydric Soil Present	? Yes ● No ○		
Depth (inc	hes):							1174110 0011 1 1001111	100 0 110 0		
HYDROLO	OGY										
	Irology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	sufficient)							ned Leaves (B9)		
Surface V	Water (A1)			☐ Inundation V	isible on A	erial Imagei	ry (B7)	☐ Drainage F	Patterns (B10)		
✓ High Wat	ter Table (A2)	Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)				
✓ Saturatio	✓ Saturation (A3)							Presence of	f Reduced Iron (C4)		
Water Ma	arks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)		
Sediment	t Deposits (B2)			Dry-Season \		. ,			Stressed Plants (D1)		
	osits (B3)			Other (Explai	in in Rema	rks)			ic Position (D2)		
	t or Crust (B4)								juitard (D3)		
Iron Depo	` ,								graphic Relief (D4)		
Surface S	Soil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)		
Field Observ											
Surface Wate	er Present?	Yes O		Depth (inche	es): 0						
Water Table I	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 4		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pro (includes cap		Yes	$_{No}\bigcirc$	Depth (inche	es): 3						
Describe Recor	rded Data (strea	ım gauge, n	nonitor well	l, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Demodes:											
Remarks: small drainageways adjacent to plot with denser vascular cover, patchy surface water, NWI = E.											
siriali uralilage	eways adjacent t	o piot with	uciisci vasc	Julian Cover, paterry	surface wa	iter, ivvvi – i	L.				

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