WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-	-Aug-13					
Applicar	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_	T119_02					
nvestiga		L	_andform (hill	side, terrac	e, hummocks etc.): Mountainslope						
Local relief (concave, convex, none): rolling Slope: 62.4 % / 32.0 ° Elevation: 1116											
	on : Interior Alaska Mountains	Lot: 6				WGS84					
		Latc	32.818330312	21		W 0 3 0 4					
	O Unit Name:				NWI classification: Upland						
Are Ve	egetation . , Soil . , or Hydrology . ARY OF FINDINGS - Attach site map show	significantly naturally pro wing sam	disturbed?	(If nee	ded, explain any answers in Remarks.)	No O					
H	-Hydrophytic Vegetation Present? Yes 🔾 🛮 No 🥑			41	J. J.A.						
H	Hydric Soil Present? Yes ○ No ④)	Is the Sampled Area								
	Vetland Hydrology Present? Yes ○ No ●)	within a Wetland? Yes ○ No ●								
Rema	, 0,										
VEGE"	TATION -Use scientific names of plants. Li	ist all spe	cies in the	plot.	Dawinana Tast walkshaati						
		Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species						
	Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:	(A)					
1.					Total Number of Dominant	_					
2. –					Species Across All Strata: 6	(B)					
3					Percent of dominant Species	(A/D)					
4.					That Are OBL, FACW, or FAC: 50.0%	(A/B)					
5					Prevalence Index worksheet:						
	Total Cover				Total % Cover of: Multiply by:						
Sapli	ng/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species 0 x 1 =	0					
1.	Arctostaphylos rubra	3		FAC	FACW Species 9 x 2 =	18					
2.	Cassiope tetragona	20	✓	FACU	FAC Species <u>39</u> x 3 = <u>1</u>	117					
3.	Vaccinium uliginosum	15	✓	FAC	FACU Species <u>28.5</u> x 4 = <u>1</u> :	14.0					
4.	Salix polaris	2		FACW	UPL Species <u>12</u> x 5 =	60					
5.	Empetrum nigrum	15	✓	FAC	Column Totals: <u>88.5</u> (A) <u>3</u> 0	09.0 (B)					
6.	Dryas octopetala	8		UPL							
7.	Ledum decumbens	5		FACW	Prevalence Index = B/A = 3.492	_					
8.	Loiseleuria procumbens	5		FACU	Hydrophytic Vegetation Indicators:						
9.	Salix pulchra	2		FACW	Dominance Test is > 50%						
10.	Picea glauca	0.1		FACU	Prevalence Index is ≤3.0						
Herb	Total Cover Stratum 50% of Total Cover:	: 15.02	Morphological Adaptations ¹ (Provide support Remarks or on a separate sheet)	ting data in							
1.	Arnica lessingii	3	✓	UPL	Problematic Hydrophytic Vegetation ¹ (Explai	in)					
2.	Carex podocarpa	5	✓	FAC	¹ Indicators of hydric soil and wetland hydrology m	nust					
3.	Anthoxanthum monticola ssp. alpinum	3	✓	FACU	be present, unless disturbed or problematic.						
4.	Luzula multiflora	0.1		FACU	Disk size (and its and hearth would the						
5.	Bistorta vivipara	1		FAC	Plot size (radius, or length x width) 10m						
6.	Pyrola asarifolia	0.1		FACU	% Cover of Wetland Bryophytes (Where applicable)						
7.	Saxifraga bronchialis	0.1		FACU							
8.	Pedicularis capitata	0.1		FACU							
9.	Arctagrostis latifolia	0.1		FACW	<u>15</u>						
10.	Boykinia richardsonii	1		UPL	Hydrophytic						
	Total Cover		Vegetation								
	50% of Total Cover:	: <u>13.5</u> 6.75 20% (of Total Cover	2.7	Present? Yes O No •						
Rema	rks										
Acma											

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SOIL Sampling Point: SW13_T119_02

Profile Descripti Depth	on: (Describe to the depth needed to docu Matrix		ument the indicator or confirm the absence of indicators) Redox Features			cators)					
(inches)	Color (me	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-5			100					Fibric Organics			
5-17	10YR	3/3	100					Sandy Loam	ang gravels-cobbles		
								-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ced Matrix ² Location	on: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric S	oils: ³				
	Histel (A1)			Alaska Color (4					
Histic Epip	. ,			Alaska Alpine swales (TA5) Alaska Alpine swales (TA5)							
	Sulfide (A4)				Alaska Redox With 2.5Y Hue Other (Explain in Remarks)						
	Surface (A1)	יו									
Alaska Gle	•	-)						mary indicator of wetland I	nydrology,		
Alaska Red				and an appropri	ate landscap	e position	must be pro	esent			
	yed Pores (A1	.5)		⁴ Give details of	color chang	e in Remarl	ks				
Restrictive Laye											
Type:	(p. 656)							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							rryarie son rresent	ii les a No c		
Remarks:											
HYDROLO	GY										
Wetland Hyd		ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)						ined Leaves (B9)		
Surface W	ater (A1)			Inundation	Visible on A	erial Image	ery (B7)	☐ Drainage I	Patterns (B10)		
High Wate	er Table (A2)			Sparsely Ve		_		Oxidized R	thizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits (B15)				Presence of	of Reduced Iron (C4)			
☐ Water Ma	rks (B1)			Hydrogen S	ulfide Odor	(C1)		☐ Salt Depos	sits (C5)		
Sediment	Deposits (B2)			Dry-Season				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expl	ain in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)					,		Shallow A	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopo	graphic Relief (D4)		
Surface S	oil Cracks (B6))						FAC-neutra	al Test (D5)		
Field Observa	itions:										
Surface Water	Present?	Yes	No 💿	Depth (inch	ies):						
Water Table P	resent?	Yes 🤇	No •	Depth (inch	ec).		Wetla	nd Hydrology Preser	nt? Yes ○ No •		
Saturation Pre					•			, , , , , , , , , , , , , , , , , , , ,			
(includes capi		Yes C	No •	Depth (inch	ies):						
Describe Recor	ded Data (stre	eam gauge	, monitor we	ell, aerial photos, pro	evious inspe	ection) if av	ailable:				
Remarks:											
no wetland hyd	Irology indicat	ors observ	ed								

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