WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13							
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T190_02							
nvestigator(s): JGK	ı	Landform (hills	side, terrac	e, hummocks etc.): Saddle							
Local relief (concave, convex, none): hummocky		Slope: 10.5									
Subregion : Interior Alaska Mountains	Lat C	62.949751377									
Soil Map Unit Name:			<u> </u>	NWI classification: PSS1B							
	nificantly turally pro	disturbed?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ sided, explain any answers in Remarks.) s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes ● No ○			41 0	ulad Ausa							
Hydric Soil Present? Yes ● No ○				pled Area etland? Yes ◉ No ◯							
Wetland Hydrology Present? Yes ● No ○		Wi	tnın a w	Vetland? Yes ● No ○							
Remarks: DUNN SITE 1511 SOIL 1510											
VEGETATION - Use scientific names of plants. List all species in the plot. Dominance Test worksheet:											
	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species							
1.	0			That are OBL, FACW, or FAC:3(A)							
2.	0			Total Number of Dominant Species Across All Strata: 3 (B)							
3.	0			Percent of dominant Species							
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.	0			Prevalence Index worksheet:							
Total Cover:	0			Total % Cover of: Multiply by:							
Sapling/Shrub Stratum 50% of Total Cover: 0	20%	of Total Cover:	0	OBL Species 0 x 1 = 0							
Vaccinium uliginosum	20	✓	FAC	FACW Species 5 x 2 = 10							
Vaccinium vitis-idaea	3		FAC	FAC Species 105 x 3 = 315							
Empetrum nigrum	15		FAC	FACU Species 4.3 x 4 = 17.2							
Betula nana	35	<u></u>	FAC	UPL Species 5 x 5 = 25							
5. Salix reticulata	10		FAC	Column Totals: 119.3 (A) 367.2 (B)							
6. Salix pulchra	3		FACW								
7. Arctostaphylos rubra	2		FAC	Prevalence Index = B/A =3.078_							
8. Dryas octopetala	3		UPL	Hydrophytic Vegetation Indicators:							
9. Picea glauca	0.1		FACU	✓ Dominance Test is > 50%							
10. Betula neoalaskana	0.1		FACU	Prevalence Index is ≤3.0							
Total Cover: Herb Stratum 50% of Total Cover: 45	18.24	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)									
Pedicularis labradorica	2		FACW	✓ Problematic Hydrophytic Vegetation ¹ (Explain)							
2. Carex bigelowii	20	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must							
3. Anthoxanthum monticola ssp. alpinum	1		FACU	be present, unless disturbed or problematic.							
4. Bistorta plumosa	3		FACU	Plot size (radius, or length x width) 10m							
5. Poa glauca	2		UPL	Plot size (radius, or length x width) % Cover of Wetland Bryophytes5							
6. Orthilia secunda	0.1		FACU	(Where applicable)							
7	0			% Bare Ground							
8				Total Cover of Bryophytes 60							
9											
10.	0			Hydrophytic							
Total Cover:	28.1			Vegetation Present? Yes ● No ○							
50% of Total Cover: 14.	0 200/	of Total Course	5.62	Present? Yes ♥ No ∪							

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SOIL Sampling Point: SW13_T190_02

Profile Descripti	ion: (Describe to t	the depth nee	ded to docume	ent the inc		firm the abs		ators)				
(inches)	Color (moi	ist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2			100			_			Fibric Organics			
2-5			100						Hemic Organics			
5-13		4/2	70	10YR	3/6	30		PL	Gravelly coarse sandy clay	Angular cobbles/boulders at base		
		-,-			-, -					Triguian Cobbico, III.III.		
								-				
¹Type: C=Cor	ncentration. D=	Depletion.							annel. M=Matrix			
Hydric Soil I	ndicators:						c Hydric So	oils:	-			
	r Histel (A1)				ka Color Ch				Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)				ka Alpine sv	-	-		Underlying Layer			
_ ' '	Sulfide (A4)			Alasi	ka Redox W	/ith 2.5Y F	lue	✓	Other (Explain in Remark	(S)		
	k Surface (A12)			³ One i	ndicator of l	hvdrophvt	ric vegetatio	n. one prin	mary indicator of wetland h	vdrology.		
Alaska Gle	, , ,						pe position n			,, a. 0.05,,,		
Alaska Red		٠,		4 Give	details of co	lor change	e in Remark	S				
	eyed Pores (A15											
Restrictive Laye										O O		
Type: Roc									Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 14											
HYDROLO	GY											
Wetland Hyd	rology Indicat	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	ators (any one is	s sufficient)										
Surface W	, ,			In In	undation Vi	sible on A	erial Imager	y (B7)				
✓ High Wate	, ,			Sp	arsely Vege	tated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
✓ Saturation	. ,			∐ Ma	arl Deposits	(B15)				f Reduced Iron (C4)		
☐ Water Ma					drogen Sulf				☐ Salt Depos			
	Deposits (B2)			_	y-Season W					Stressed Plants (D1)		
Drift Depo	` ,			∐ Ot	ther (Explain	ı in Rema	rks)			ic Position (D2)		
	or Crust (B4)									juitard (D3)		
Iron Depo	. ,								_	graphic Relief (D4) al Test (D5)		
Field Observa	oil Cracks (B6)							1	☐ FAC-Heund	II Test (US)		
Surface Water		Yes ()	No •	D _t	epth (inches	-).						
		Yes •				•		\4/otlo	Understager Desse	t? Yes • No O		
Water Table P				De	epth (inches	s): 5		Wetia	nd Hydrology Presen	t? yes ♥ No ∪		
Saturation Pre (includes capi	llary fringe)	Yes •			epth (inches							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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