WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 31-Jul-13				
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T155_07				
Investigator(s): WAD, RWM		Landform (hill	ce, hummocks etc.): Bench					
Local relief (concave, convex, none): convex		Slope: 7.0 % / 4.0 ° Elevation: 1113						
Subregion : Interior Alaska Mountains	Lat.:	63.209977984	. —	Long.: -148.435895324 Datum: WGS84				
Soil Map Unit Name:		00.20007700		NWI classification: Upland				
Are climatic/hydrologic conditions on the site typical for this ti	ma of voc	vr2 Vec	● No ○	(If no, explain in Remarks.)				
	-	tly disturbed?		Iormal Circumstances" present? Yes No				
		problematic?		eded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes ● No C)	_						
Hydric Soil Present? Yes No •			Is the Sampled Area					
Wetland Hydrology Present? Yes O No @)	wi	within a Wetland? Yes ○ No ●					
Remarks: bench above creek, similar relic mineral cored f	root mour	ada but with law	بريوالنين م	manant				
Tremains. Deficit above creek, similar rene militeral cored r	iost illoui	ids but with lov	v willow coi	inponent.				
VEGETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.					
	Abaaluta	e Dominant	Tudiostou	Dominance Test worksheet:				
Tree Stratum	Absolute % Cove		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.				Percent of dominant Species				
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.	0			Prevalence Index worksheet:				
Total Cover	:	_		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species 0.1 x 1 = 0.1				
Salix pulchra	30	✓	FACW	FACW Species 32 x 2 = 64				
Empetrum nigrum	45		FAC	FAC Species				
Spiraea stevenii			FACU	FACU Species 8 x 4 = 32				
4. Vaccinium uliginosum	-		FAC	UPL Species0 x 5 =0				
5.	•			Column Totals: <u>217.1</u> (A) <u>627.1</u> (B)				
6.	0							
7.	0			Prevalence Index = B/A = 2.889				
8	0	_		Hydrophytic Vegetation Indicators:				
9	0	_ 🖳		✓ Dominance Test is > 50%				
10	0	_		✓ Prevalence Index is ≤3.0				
Total Cover			☐ Morphological Adaptations ¹ (Provide supporting data in					
Herb Stratum 50% of Total Cover:				Remarks or on a separate sheet)				
1. Festuca altaica			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
Sanguisorba canadensis	2	-	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3. Sedum rosea		-	FACU	be present, unless disturbed or problematic.				
Anemone narcissiflora Carex bigelowii			FACU	Plot size (radius, or length x width)				
Carex bigelowii Artemisia norvegica	1		FACU	% Cover of Wetland Bryophytes				
7 Pinguicula vulgarie	0.1		OBL	(Where applicable)				
8.		-		% Bare Ground				
9.				Total Cover of Bryophytes				
10.	0			Hydrophytic				
Total Cover		_		Hydrophytic Vegetation				
50% of Total Cover:6			26.42	Present? Yes No				
Remarks:								

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SOIL Sampling Point: SW13_T155_07

	ion: (Describe to	the depth ne	eded to docur	nent the inc		nfirm the abs		ators)				
(inches)	Depth		<u></u> %	Color (moist)		%	% Type ¹		Texture	Remarks		
0-6	2.5Y	2.5/1	100					_Loc_ ²	Loamy Sand			
6-10	2.5Y	2.5/1		10YR	4/4	50			Loamy Sand	mixed matrix		
10-12	10YR	2/2	100						Silt Loam			
10-12	1011/								SIIL LOGIII	buried organic		
¹Type: C=Cor	ncentration. D=	-Depletion.	RM=Reduce				_		annel. M=Matrix			
Hydric Soil I	ndicators:				ors for Pro		4	oils: ¯	_			
Histosol or	r Histel (A1)				ka Color Ch			L	Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)				ka Alpine sv		-		Underlying Layer			
	Sulfide (A4)			Alas	ka Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	(S)		
	Surface (A12))		3 One i	ndicator of	hydronhyt	ic vegetatio	n one nrin	mary indicator of wetland h	avdrology		
Alaska Gle				and an	appropriate	e landscap	e position r	nust be pro	esent	iyarology,		
Alaska Red		- \		4 Give	details of co	lor change	e in Remark	:S				
	eyed Pores (A1	-										
Restrictive Laye	er (if present):									? Yes ○ No •		
Type:	, oc).								Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies).											
HYDROLO												
Wetland Hydi	rology Indica	tors:								cators (two or more are required)		
Primary Indica		s sufficient	:)						Water Stained Leaves (B9) Drainage Patterns (B10)			
Surface W					undation Vi		-	, , ,				
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)							ce (B8)		hizospheres along Living Roots (C3)		
Saturation	. ,				arl Deposits	. ,				of Reduced Iron (C4)		
	☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Salt Deposits (C5)											
									` '			
	or Crust (B4)			□ Ot	her (Explair	ı ın Remar	rks)			juitard (D3)		
Iron Depo										graphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra			
Field Observa									The neutro			
Surface Water		Yes C	No •	De	epth (inches	s):						
Water Table P			No ●		epth (inches	•		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre						•			iiu iiyui 0.09,	C: 169 ~ 110 -		
(includes capil		Yes \cup	No 💿	De	epth (inches	s): 						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
only one secon	dary hydrology	/ indicator /	observed									

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