WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date: 20-Jun-12				
Applicant/Owner: Alaska Energy Authority		Samplin	g Point: SW12_T27_03				
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Bench						
Local relief (concave, convex, none): hummocky	Slope:	% / <u>5.3</u> ° Elevation: <u>904</u>					
Subregion : Interior Alaska Mountains Lat.:	62.871388171	Long.: -148.660345	Datum: NAD83				
Soil Map Unit Name:		NWI classi	fication: Upland				
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology asignificantly disturbed? Are "Normal Circumstances" present? Yes No Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present?	Yes 🖲	No O		
Hydric Soil Present?	Yes \bigcirc	No 🖲	Is the Sampled Area	Yes \bigcirc No $oldsymbol{eta}$
Wetland Hydrology Present?	$Yes \bigcirc$	Νο 💿	within a Wetland?	fes O NO O
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

		۸h	Absolute Dominant		Indicator	Dominance Test worksheet:		
			Cover	Species?	Status	Number of Dominant Species		
1.	- Orlatani		0			That are OBL, FACW, or FAC: (A)		
2.			0			Total Number of Dominant		
3.			0			Species Across All Strata:3 (B)		
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
 5.			_					
5.	Total Co		0			Prevalence Index worksheet:		
_		-	0	(Total % Cover of: Multiply by:		
Sap	bling/Shrub Stratum 50% of Total Cover:	0	_ 20%	of Total Cover:	0	OBL Species x 1 =		
1.	Betula glandulosa		50	\checkmark	FAC	FACW Species <u>10</u> x 2 = <u>20</u>		
2.	Salix pulchra		5		FACW	FAC Species <u>87</u> x 3 = <u>261</u>		
3.	Vaccinium uliginosum		10		FAC	FACU Species <u>13</u> x 4 = <u>52</u>		
4.	Rhododendron tomentosum		5		FACW	UPL Species x 5 =		
5.	Vaccinium vitis-idaea		2		FAC	Column Totals: 110 (A) 333 (B)		
6.	Empetrum nigrum		15		FAC			
7.	Spiraea stevenii		10		FACU	Prevalence Index = B/A = <u>3.027</u>		
8.	Linnaea borealis		1		FACU	Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
10.			0			Prevalence Index is ≤3.0		
	Total Co		98			Morphological Adaptations ¹ (Provide supporting data in		
			20%	of Total Cover:	19.6	Remarks or on a separate sheet)		
1.	Calamagrostis canadensis		5	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Trientalis europaea		2		FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex bigelowii		5	\checkmark	FAC	be present, unless disturbed or problematic.		
4.			0					
5.			0			Plot size (radius, or length x width) <u>10m</u>		
			0			% Cover of Wetland Bryophytes (Where applicable)		
			0			% Bare Ground		
			0			Total Cover of Bryophytes		
			0					
			0			Hydrophytic		
Total Cover: 12					Vegetation			
	50% of Total Cover:	6		of Total Cover:	2.4	Present? Yes \bullet No \bigcirc		
Remarks:								

Profile Description	scription: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features										
Depth (inches)						Type ¹	Loc 2	Texture	Remarks		
0-2	Color (mo	ist)	%	Color (moist)	%	туре	LOC	Fibric Organics			
2-4.5		4/2	60					Loamy Sand	40% roots		
4.5-10.5	7.5YR	3/3	80					Sandy Clay Loam	20% Is inclusions incl of scl 10yr 2/1		
10.5-16	10YR	3/2	80					Sandy Clay Loam	20% fine gravel		
								Sandy Clay Loam			
	10YR	3/3	60						10% fine gravel 30% round-subangular co		
					-						
							. <u></u>				
¹ Type: C=Con	centration. D	=Depletion	. RM=Redu	ced Matrix ² Location		-		innel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pr		4	oils:	1			
Histosol or	. ,			Alaska Color Ch		,		Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epipe	. ,			Alaska Alpine s	-	-		Other (Explain in Remark	ks)		
Hydrogen S	Surface (A4)	``			//101 2.51 1	lue					
Alaska Gley	•)						nary indicator of wetland h	nydrology,		
Alaska Red				and an appropriat	e landscap	pe position r	nust be pre	esent			
	ed Pores (A1	5)		⁴ Give details of co	lor chang	e in Remark	S				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inche	es):										
Remarks:											
HYDROLOG	GY										
Wetland Hydr		itors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one	is sufficien	t)					Water Stai	ned Leaves (B9)		
Surface Wa	ater (A1)			Inundation V	sible on A	erial Imager	y (B7)	Drainage Patterns (B10)			
	r Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	e (B8)		hizospheres along Living Roots (C3)		
Saturation				Marl Deposite	• •				of Reduced Iron (C4)		
Water Mar				Hydrogen Su				Salt Depos			
	Deposits (B2)			Dry-Season V		. ,		_	Stressed Plants (D1)		
Drift Depo	. ,			Other (Explai	n in Rema	rks)		_	ic Position (D2)		
	or Crust (B4)							_	quitard (D3)		
Iron Depos	il Cracks (B5)							_	graphic Relief (D4) al Test (D5)		
Field Observa											
Surface Water		Yes (No 💿	Depth (inche	-)·						
Water Table Pr							Wetla	nd Hydrology Presen	nt? Yes 🔿 No 🖲		
Saturation Pres				Depth (inche			Wetia	na nyarology riesen			
(includes capill	ary fringe)	Yes 🤄	No O	Depth (inche	s): 16						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
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