WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: D	enali Borough	Sampling Date: 06-Aug-12
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: SW12_T16_07
Investigator(s): SLI, KMK	Landform (hillside	e, terrace, hummocks etc.):	Hillside
Local relief (concave, convex, none): flat	Slope:8.7%	/ <u>5.0</u> ° Elevation: <u>883</u>	
Subregion : Interior Alaska Mountains Lat.:	63.4268715775	Long.: -148.605066	642 Datum: WGS84
Soil Map Unit Name:		NWI classi	fication: Upland
		11111 010331	upianu
Are climatic/hydrologic conditions on the site typical for this time of year Are Vegetation , Soil , or Hydrology significar	ar? Yes () htly disturbed? problematic?		Remarks.) present? Yes No

H	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	No	Is the Sampled Area within a Wetland?	Yes \bigcirc No $lacksquare$
Rema	arks:				

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

		۵h	solute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species	
1.			0			That are OBL, FACW, or FAC: <u>3</u> (A)	
2.			0			Total Number of Dominant Species Across All Strata: 5 (B)	
3.			0				
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)	
5.		_	0				
0.	Total Cov		0			Prevalence Index worksheet:	
6		0		of Total Cover:	0	Total % Cover of: Multiply by:	
Jap		0	_ 20/0			OBL Species $1 \times 1 = 1$	
1.	Alnus viridis ssp. crispa		85	\checkmark	FAC	FACW Species <u>6</u> x 2 = <u>12</u>	
2.	Ribes triste		10		FAC	FAC Species <u>108</u> x 3 = <u>324</u>	
3.	Linnaea borealis		5		FACU	FACU Species 22 x 4 = 88	
4.	Spiraea stevenii		5		FACU	UPL Species x 5 =	
5.			0			Column Totals: 137 (A) 425 (B)	
			0				
			0			Prevalence Index = B/A = <u>3.102</u>	
			0			Hydrophytic Vegetation Indicators:	
			0			✓ Dominance Test is > 50%	
			0			Prevalence Index is ≤3.0	
	Total Cov	er:	105			\square Morphological Adaptations ¹ (Provide supporting data in	
Herb Stratum 50% of Total Cover: 52.				of Total Cover:	21	Remarks or on a separate sheet)	
1.	Lycopodium clavatum		5	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Equisetum sylvaticum		3		FAC	¹ Indicators of hydric soil and wetland hydrology must	
3.	Chamerion angustifolium		5	\checkmark	FACU	be present, unless disturbed or problematic.	
4.	Sanguisorba canadensis		5	\checkmark	FACW		
5.	Calamagrostis canadensis		10	\checkmark	FAC	Plot size (radius, or length x width) <u>5m</u>	
6.	Rumex occidentalis		1		OBL	% Cover of Wetland Bryophytes (Where applicable)	
7.	Cornus canadensis		1		FACU	% Bare Ground 55	
8.	Rubus chamaemorus		1		FACW	Total Cover of Bryophytes 40	
9.	Dryopteris expansa	_	1		FACU	<u>10</u>	
10.			0			Hydrophytic	
	Total Cov	er:	32			Vegetation	
	50% of Total Cover:	16	20%	of Total Cover:	6.4	Present? Yes \bullet No \bigcirc	
Rem	arks:					·	

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Depth Matrix Redox Features									
<i>a</i> i ,	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4							Fibric Organics		
4-6		100					Hemic Organics		
6-18 7.5	/R 3/3	95		-			Silt Loam	5% sapric organic lenses	
			,						
¹ Type: C=Concentrati	on. D=Deplet	ion. RM=Reduc	ed Matrix ² Location	n: PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix		
Hydric Soil Indicato	rs:		Indicators for Pr	oblematio	: Hydric So	oils: ³			
Histosol or Histel (A1)		Alaska Color Cl	hange (TA4	4 +)		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A	2)		Alaska Alpine s	wales (TA5	5)		Underlying Layer		
Hydrogen Sulfide ((A4)		🗌 Alaska Redox V	With 2.5Y F	lue		Other (Explain in Remarl	(3)	
Thick Dark Surface	e (A12)		2						
Alaska Gleyed (A13	3)		³ One indicator of and an appropriat	hydrophyt te landscan	ic vegetation	n, one prir nust be pri	mary indicator of wetland h	nydrology,	
Alaska Redox (A14)								
Alaska Gleyed Pore	es (A15)		⁴ Give details of co	olor change	e in Remark	S			
Restrictive Layer (if pre	sent):								
Туре:							Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (inches):							-		
Remarks:						l			
no hydric soil indicators									
,									
HYDROLOGY									
Wetland Hydrology I	Indicators:							cators (two or more are required)	
Primary Indicators (and		ient)					Water Stained Leaves (B9)		
Surface Water (A1	-		Inundation V		5	, , ,			
High Water Table	(A2)		Sparsely Veg		cave Surfa	ce (B8)			
	Saturation (A3)						Presence of Reduced Iron (C4)		
Water Marks (B1)			Hydrogen Su				Salt Deposits (C5)		
	Sediment Deposits (B2)						Stunted or Stressed Plants (D1) Geomorphic Position (D2)		
Drift Deposits (B3)			Other (Explain	in in Rema	rks)			· · /	
Algal Mat or Crust							_	quitard (D3)	
Iron Deposits (B5)	·						_	graphic Relief (D4) al Test (D5)	
Field Observations:	S (D0)								
Surface Water Present	-2 Yes	0 No 🖲	Depth (inche						
						Watle	nd Hydrology Presen	it? Yes 🔿 No 🖲	
Water Table Present?			Depth (inche	es):		wetta	na nyarology Presen	it? fes 🗢 No 👳	
Saturation Present? (includes capillary frin	ge) Yes	○ No ●	Depth (inche	es):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
no wetland hydrology indicators									