WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Denali Bo	rough Sampling Date: 07-Aug-12			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T15_02			
	gator(s): CTS, EKJ		Landform (hil	lside, terrac	e, hummocks etc.): Gulch or Gully			
-	elief (concave, convex, none): concave		Slope: 5.2					
	,	l at :	· —					
_	ion : Interior Alaska Mountains	Lat	63.35074990					
	p Unit Name:			<u> </u>	NWI classification: Upland			
Are V	MARY OF FINDINGS - Attach site map sho	significantly naturally pr owing sam	/ disturbed? oblematic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) formal Circumstances present? Yes ● No ○ ded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No		le	the Sam	nlad Area			
	Hydric Soil Present? Yes ○ No ○	•)	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No	•	within a Wetland? Yes ○ No ●					
Rem	arks: Small creek in plot at bottom of gully							
	TATION - Use scientific names of plants. L	ist all spe	Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 2 (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: 66.7% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cove	r: <u> </u>			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 0 x 1 = 0			
1.	Alnus viridis ssp. crispa	85	✓	FAC	FACW Species 2.1 x 2 = 4.2			
	Cnirona atayonii	15		FACU	FAC Species 117.1 x 3 = 351.3			
	Ribes triste	15		FAC	FACU Species 77 x 4 = 308			
4.		_			UPL Species 0 x 5 = 0			
5.					Column Totals: _196.2_ (A)663.5_ (B)			
6.		_						
7.					Prevalence Index = B/A = 3.382			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Her	Total Cove b Stratum 50% of Total Cover: _		of Total Cove	r: <u>23</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus canadensis	40	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Chamerion angustifolium	4		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Rumex obtusifolius	2		FACW	be present, unless disturbed or problematic.			
4.	Spinulum annotinum	5		FACU	Plot size (radius, or length x width)			
5.	Calamagrostis canadensis	15	✓	FAC	% Cover of Wetland Bryophytes 10			
6.	Dryopteris expansa			FACU	(Where applicable)			
7.	Linnaea borealis	3		FACU	% Bare Ground			
					Total Cover of Bryophytes			
10.				FACW	Hydrophytic			
			of Total Cover	. 16.24	Present? Yes No			
_					l e e e e e e e e e e e e e e e e e e e			
8. 9. 10.	Polemonium acutiflorum Aconitum delphinifolium Dodecatheon frigidum Total Cove 50% of Total Cover:	2 0.1 0.1 r: 81.2 40.6 20%	of Total Cover	FAC FACW 16.24	Total Cover of Bryophytes 10 Hydrophytic Vegetation			

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SOIL Sampling Point: SW12_T15_02

Profile Descript	ion: (Describe to	the depth ne	eded to docur	ment the indicator or co	onfirm the at	nsence of indic	ators)		10mt. 54412_115_02		
Depth Description		Matrix			dox Feat						
(inches)	Color (me	oist)	%	Color (moist)	<u>%</u>	Type ¹	_Loc_2	Texture	Remarks		
0-3			90		·			Fibric Organics	10% roots		
3-4			95					Hemic Organics	5% roots, few semiang cobbles		
4-16	10YR	3/3	70					Sandy Loam	course sand to semiang & ang cbl & grvl w f		
-							-				
								-			
1 Type: C=Cor	ncentration D	=Denletion	RM=Reduc	ed Matrix ² Location	n: Pl =Poi	– ——— re Linina RC	=Root Cha	nnel M=Matrix			
		-Беріссіон.	- Reduct	Indicators for Pr				annen Pi-Piddix			
Hydric Soil I				Alaska Color C		4	DIIS:] Alaska Claused W/stassa II	FV av Daddan		
	r Histel (A1)			Alaska Alpine s		-	_	Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	edon (A2) Sulfide (A4)			Alaska Redox \	`	,		Other (Explain in Remarks)			
	Surface (A12)		_							
Alaska Gle	-	,		³ One indicator of and an appropria				mary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)				,			esent			
Alaska Gle	eyed Pores (A1	5)		⁴ Give details of o	olor chang	je in Remark	(S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes O No 🖲		
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO	GY										
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	itors (any one	is sufficient	.)					Water Stained Leaves (B9)			
	Surface Water (A1) Inundation Visib					-		_	atterns (B10)		
	High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit	. ,				f Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su				☐ Salt Depos			
Sediment Deposits (B2)				☐ Dry-Season \		` ,			Stressed Plants (D1)		
☐ Drift Depo				U Other (Expla	in in Rema	arks)			ic Position (D2)		
	or Crust (B4)								uitard (D3)		
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6))					1	☐ FAC-neutra	I Test (D5)		
Field Observa Surface Water		Yes C	No ●	Depth (inche	ac):						
			No •	, ,	,		Wetla	Usadana Drocon	t? Yes O No 💿		
Water Table F Saturation Pre				Depth (inche	≥ S):		Wetia	nd Hydrology Presen	t? res ∨ no ∞		
(includes capi		Yes 🖰	No 💿	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	drology indicat	ors									

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