WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/o					Sampling Point: SW12 T41 04											
				Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-12 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T41_04												
U	or(s): SLI, KMK	side, terrac	e, hummocks etc.): Hillside													
Local relie	ef (concave, convex, none): flat		Slope:	% / 9.8	,											
	: Interior Alaska Mountains		62.800578057													
_		Lat(32.000370037	3												
	Jnit Name:			No ○	NWI classification: Upland											
Are Vege Are Vege	etation , Soil , or Hydrology r.RY OF FINDINGS - Attach site map show	significantly naturally proving sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ioded, explain any answers in Remarks.) Iordad, explain any answers in Remarks.)											
1			Is	Is the Sampled Area												
1	dric Soil Present? Yes No		within a Wetland? Yes ○ No ●													
Remarks	etland Hydrology Present? Yes O No 💿)	""													
VEGETA	ATION -Use scientific names of plants. Listratum	st all spe Absolute % Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species											
1.		0			That are OBL, FACW, or FAC:5(A)											
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)											
3.		0			Percent of dominant Species											
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)											
5.		0			Prevalence Index worksheet:											
	Total Cover:				Total % Cover of: Multiply by:											
Sapling	3/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0											
1. Be	etula nana	20	✓	FAC	FACW Species 3 x 2 = 6											
	accinium uliginosum		✓	FAC	FAC Species68 x 3 =204											
3. Pi	cea glauca	2		FACU	FACU Species <u>10</u> x 4 = <u>40</u>											
4. Er	mpetrum nigrum	10	✓	FAC	UPL Species <u>5</u> x 5 = <u>25</u>											
5. Va	accinium vitis-idaea	7		FAC	Column Totals: <u>86</u> (A) <u>275</u> (B)											
6. Sa	alix pulchra	7 3 5		FACW												
7. <u>S</u> a	alix niphoclada	5		UPL	Prevalence Index = B/A = 3.198											
8. <u>Be</u>	etula glandulosa	10	~	FAC	Hydrophytic Vegetation Indicators:											
9. <u>Ar</u>	ctous alpinus	5		FACU	✓ Dominance Test is > 50%											
10. <u>Sa</u>	alix rotundifolia	_1		FAC	Prevalence Index is ≤3.0											
Herb S	Total Cover: tratum 50% of Total Cover:		of Total Cover	:15.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)											
	nthoxanthum monticola ssp. alpinum	3	V	UPL	Problematic Hydrophytic Vegetation (Explain)											
	arex bigelowii		V	FAC	¹ Indicators of hydric soil and wetland hydrology must											
		_			be present, unless disturbed or problematic.											
					Plot size (radius, or length x width)											
		•			% Cover of Wetland Bryophytes											
					(Where applicable)											
					% Bare Ground 20											
					Total Cover of Bryophytes 40											
		0			Hydronhytic											
	Total Cover:	8			Hydrophytic Vegetation											
			of Total Cover:	1.6	Present? Yes • No O											

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SOIL Sampling Point: SW12_T41_04

		he depth nee	eded to docum	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (moi			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-1	(111)					-75-		Fibric Organics			
1-3								Hemic Organics			
3-4								Sapric Organics			
4-6.5	7.5YR	3/2	100					Silt Loam			
6.5-16	10YR	4/2						Sandy Loam	30% subang gravels to cobbles		
								-			
¹Type: C=Con	 centration. D=		RM=Reduce	ed Matrix ² Location	n: PL=Pore	e Lining. RO	 C=Root Cha	nnel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pr	oblematio	Hydric S	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA4	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	` '			Alaska Alpine swales (TA5) Underlying Layer							
☐ Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remarks)			
☐ Thick Dark	Surface (A12)			30							
Alaska Gley	/ed (A13)			 One indicator of and an appropriat 				nary indicator of wetland hesent	ydrology,		
Alaska Red	ox (A14)					•	•				
☐ Alaska Gley	ed Pores (A15)		⁴ Give details of co	olor change	e in Kemari	KS .				
Restrictive Laye	r (if present):								0 0		
Type:	-a).			Hydric Soil Pr					? Yes○ No •		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one is	sufficient)						Water Stained Leaves (B9)			
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)		
Water Mar				☐ Hydrogen Sulfide Odor (C1)				☐ Salt Depos			
Sediment	☐ Dry-Season V					Stressed Plants (D1)					
☐ Drift Depo				Other (Explai	in in Rema	rks)			ic Position (D2)		
Iron Depos	or Crust (B4)								juitard (D3) graphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa									rest (D3)		
Surface Water		Yes O	No •	Depth (inche	s):						
Water Table P			No •	, ,	•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		_	_	Depth (inche	·S):		Tr Ctia	na rryarology i resen	t. 165 © 116 ©		
(includes capil		Yes ∪	No 💿	Depth (inche	s):						
Describe Record	led Data (strea	m gauge,	monitor wel	ll, aerial photos, prev	vious inspe	ction) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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