WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date:08-Aug-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T44_54
Investig	gator(s): SLI, KMK	L	andform (hill	side, terrac	e, hummocks etc.): Mound
Local re	elief (concave, convex, none):	,	Slope: 3.5	% / 2.0	° Elevation: 765
Subrea	ion : Interior Alaska Mountains	 Lat.: 6	2.892576578	 83	Long.: -148.467298309 Datum: WGS84
_	p Unit Name:		2.002070070		NWI classification: Upland
	natic/hydrologic conditions on the site typical for this tir	no of voor?	Ves	● No ○	(If no, explain in Remarks.)
Are V	egetation 🔲 , Soil 🔲 , or Hydrology 🔲 s	•	disturbed?	Are "N	lormal Circumstances" present? Yes No deded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map show	ving sam	pling point	locations	, transects, important features, etc.
	Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No)	wi	thin a W	
	understory.				igns of burn, open tall shrub birch with trace herbaceous
VEGE	TATION -Use scientific names of plants. Li	st all spec	cies in the	plot.	
		Absolute		Indicator	Dominance Test worksheet:
1.	e Stratum	% Cover 0	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3(A)
2.		0			Total Number of Dominant
3.		0			Species Across All Strata:
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species x 1 =
1.	Picea glauca	4		FACU	FACW Species 30 x 2 = 60
2.	Betula glandulosa	50	V	FAC	FAC Species <u>95</u> x 3 = <u>285</u>
	Ledum decumbens	30	V	FACW	FACU Species 6 x 4 = 24
	Vaccinium uliginosum	40	✓	FAC	UPL Species <u>0</u> x 5 = <u>0</u>
	Vaccinium vitis-idaea			FAC	Column Totals: <u>131</u> (A) <u>369</u> (B)
	Spiraea stevenii			FACU	Prevalence Index = B/A =
7.					
8.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
					✓ Prevalence Index is ≤3.0
	Total Cover:		of Total Cover	: 26.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
-					Problematic Hydrophytic Vegetation ¹ (Explain)
					Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
4.					Plot size (radius, or length x width)
5.					% Cover of Wetland Bryophytes
		^			(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
10.		0			Hydrophytic Vegetation
			of Total Cover:	0	Present? Yes • No
Pam	arks: trace carbig, otherwise no herb layer. 3% picgl				otal trop cover < E0/. EE0/. ligher cover
Kenn	u ace carbig, outerwise no nero layer. 3% picgi	a u ees men	uucu III SIIIUL	, iayei, ds li	Stal acc Cover No. 3370 littleff Cover.

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SOIL Sampling Point: SW12_T44_54

Donth	on: (Describe to t	he depth ne	eded to docu	ment the indicator or co	nfirm the abs	ence of indicat	tors)			
Depth		latrix			dox Featu	res				
(inches)	Color (moi	st)	<u>%</u>	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks	
0-1								Fibric Organics	-	
1-2.5								Hemic Organics		
2.5-5	7.5YR	5/4	85					Ash	15% charcoal	
5-7	2.5YR	3/4	100					Very Fine Loamy Sand	nodules and concretions	
7-9	5YR	4/6	100					Fine Sandy Loam		
9-11	2.5YR	3/4	100					Very Fine Loamy Sand	nodules and concretions	
11-18	7.5YR	4/6	100					Fine Sandy Loam		
-	-				-					
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Pore	Lining. RC=	=Root Cha	nnel. M=Matrix		
Hydric Soil In	ndicators:			Indicators for Pr	oblematic	Hydric Soi	ils: ³			
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA4	4		Alaska Gleyed Without H	lue 5Y or Redder	
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen S	Sulfide (A4)			Alaska Redox V	With 2.5Y H	ue	Ш	Other (Explain in Remark	ks)	
Thick Dark	Surface (A12)			3 One sindicator of	IIronbuti	· · · · · · · · · · · · · · · · · · ·	nrim	· · · · · · · · · · · · · · · · · · ·		
Alaska Gley	yed (A13)			 One indicator of and an appropriat 				nary indicator of wetland hesent	hydrology,	
Alaska Red	` '			4 Give details of co	•	·	·			
Alaska Gley	yed Pores (A15)		* GIVE UELANS OF G	DIOI CHANGE	lli Keiliai No	,			
Restrictive Laye	r (if present):	<u>.</u>								
Type:								Hydric Soil Present	:? Yes O No 💿	
Depth (inch	es):									
Remarks:		_	_		_		_			
no hydric soil in	dicators									
,										
l .										
HYDROLO(GY									
HYDROLOG Wetland Hydr		tors:						Secondary Indi	icators (two or more are required)	
	ology Indicat)						icators (two or more are required) ined Leaves (B9)	
Wetland Hydr	cology Indicat)	☐ Inundation V	isible on Ae	erial Imagery	y (B7)	Water Stai		
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