WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 04-Aug-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T133_03
Investi	gator(s): WAD, RWM		Landform (hill	side, terrac	ce, hummocks etc.): Hillside
	relief (concave, convex, none): planar		Slope: 46.6	% / 25.0	
Subre	gion : Interior Alaska Mountains	Lat.:	62.913091183		Long.: -148.061363816 Datum: WGS84
	ap Unit Name:		02.010001100	,	NWI classification: Upland
	matic/hydrologic conditions on the site typical for this ti	mo of voor	2 Vac	● No ○	(If no, explain in Remarks.)
		-	y disturbed?		Iormal Circumstances" present? Yes No
		_	roblematic?		eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C)		41 0	unland Aman
	Hydric Soil Present? Yes No •				pled Area /etland? Yes ○ No ⑨
	Wetland Hydrology Present? Yes O No •)	WI	thin a W	etland? fes ono o
Rem	narks: closed alder with mature woodland white spruc	e			
	a closed dide. Well macure woodiand write sprue	C.			
VEG	ETATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.	Picea glauca	10	✓	FACU	Total Number of Dominant
2.		0			Species Across All Strata: 4 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 75.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover				Total % Cover of: Multiply by:
Sap	lling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species x 1 =
1.	Alnus viridis ssp. crispa	_ 95_	✓	FAC	FACW Species 0 x 2 = 0
2.	Vaccinium vitis-idaea	10		FAC	FAC Species 140 x 3 = 420
3.	Linnaea borealis			FACU	FACU Species <u>25</u> x 4 = <u>100</u>
4.	Spiraea stevenii			FACU	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Viburnum edule			FACU	Column Totals: <u>165</u> (A) <u>520</u> (B)
6.					Prevalence Index = B/A = 3.152
7.					
8. 9.					Hydrophytic Vegetation Indicators: Dominance Test is > 50%
10.					Prevalence Index is ≤ 3.0
10.	Total Cover				
Hei	b Stratum 50% of Total Cover:		6 of Total Cover	23.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
_	Equisetum sylvaticum	15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	Cornus suecica	15	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis			FAC	be present, unless disturbed or problematic.
4.	Chamerion angustifolium	_		FACU	Plot size (radius, or length x width) 10m
5.		_			Plot size (radius, or length x width)
6.		0			(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
1 -					
		0			Hydrophytic
	Total Cover 50% of Total Cover:		of Total Cover	7.4	Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW13_T133_03

(inches)	Color (m	nist)	%	Color (me	nist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	COIOI (III	Jisty	100	COIOI (III)	Olsty		Турс	200	Fibric Organics	
3-5			100						Hemic Organics	_
5-7	7.5YR	3/4	80	7.5YR	2.5/2				Sandy Loam	buried organics
7-12	10YR	3/3	100						Sand	- Surred ergannes
7 12	10110									_
										_
										_
Type: C=Cor	ncentration. D	=Depletion	n. RM=Reduc	ed Matrix	2 Location:	PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	_
lydric Soil I	ndicators:			Indicato	ors for Pro	blematic	Hvdric So	oils: ³		
	Histel (A1)				a Color Cha		4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epip	. ,				a Alpine sv				Underlying Layer	
Hydrogen	Sulfide (A4)			Alask	a Redox W	ith 2.5Y H	ue		Other (Explain in Rema	rks)
Thick Dark	Surface (A12	<u>'</u>)		30.						
Alaska Gle	yed (A13)			and an a	dicator of f appropriate	nydrophyti : landscap	c vegetatio e position r	n, one prin must be pre	nary indicator of wetland esent	hydrology,
Alaska Red	` '				etails of col	·	•	·		
Alaska Gle	yed Pores (A1	.5)		- Give u	etalis of col	or change	: III Kelliai k	.5		
estrictive Laye	er (if present)	:								
Type:									Hydric Soil Preser	t? Yes O No 💿
D										
	nes): ndicators obse	rved								
emarks:		rved								
emarks:	ndicators obse	rved								
emarks: b hydric soil ir YDROLO Vetland Hydi	GY rology Indic	ators:							_Secondary In	dicators (two or more are required)
emarks: b hydric soil ir YDROLO Yetland Hydric Primary Indica	GY rology Indic	ators:	nt)						Water St	ained Leaves (B9)
emarks: b hydric soil ir YDROLO Yetland Hydro Primary Indica Surface W	GY rology Indic tors (any one /ater (A1)	ators:	nt)		indation Vis				Water St	ained Leaves (B9) Patterns (B10)
YDROLO Vetland Hydro Primary Indica Surface W High Wate	GY rology Indic tors (any one /ater (A1) er Table (A2)	ators:	nt)	☐ Spa	arsely Vege	tated Con			Water St Drainage Oxidized	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3
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