WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T133_03			
	gator(s): WAD, RWM	Landform (hil	Iside, terrace, hummocks etc.): Hillside					
Local	relief (concave, convex, none): planar		Slope:	% / 18.				
	gion : Interior Alaska Mountains	lat: 6	62.9130911826 Long.: -148.061363816 Datum: NAD83					
	ap Unit Name:							
	· -			No ○	NWI classification: Upland			
Are \		significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No C)						
	Hydric Soil Present? Yes ○ No ●)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No •		within a Wetland? Yes ○ No ●					
Rem	arks: closed alder with mature woodland white spruce.	<u> </u>						
	ETATION - Use scientific names of plants. Li	st all spe Absolute Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species			
	Dioca glauca	10	<u>Species:</u> ✓	FACU	That are OBL, FACW, or FAC:3(A)			
2.		0			Total Number of Dominant			
3.					Species Across All Strata: 4 (B)			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)			
5.		0			December 2 Andrews and about			
	Total Cover:	10			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover	2	OBL Species $0 \times 1 = 0$			
		0.5	~	FAC	FACW Species $0 \times 2 = 0$			
1. 2.	Alnus viridis	95 10		FAC FAC	FAC Species 140 x 3 = 420			
3.	Vaccinium vitis-idaea Linnaea borealis			FACU	FACU Species 25 x 4 = 100			
4.	Oning a gata vanii			FACU	UPL Species 0 x 5 = 0			
5.	Vibranian adula	2		FACU				
6.	Vibumum equie				Column Totals: <u>165</u> (A) <u>520</u> (B)			
7.		0			Prevalence Index = B/A = 3.152			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
	Total Cover: b Stratum 50% of Total Cover:				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Equisetum sylvaticum	15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Cornus suecica		✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis			FAC	be present, unless disturbed or problematic.			
	Chamaenerion angustifolium	_		FACU	Plot size (radius, or length x width)			
5.					% Cover of Wetland Bryophytes			
					(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes			
9.								
4.0		37			Hydrophytic Vegetation			
10.	Total Covers				regetation			
10.	Total Cover: 50% of Total Cover: 1		of Total Cover	7.4	Present? Yes No			

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SOIL Sampling Point: SW13_T133_03

	on: (Describe to t	he depth nee	eded to docum	nent the inc		firm the abs		cators)				
Depth (inches) Color (moist)		st)	%	-				Loc 2	- Texture	Remarks		
0-3	COIOI (IIIOI	30,	100	COIOI (II	ioistj	_/0_	Турс	LUC	Fibric Organics			
3-5			100						Hemic Organics			
				7 FVD	2.5/2							
5-7	7.5YR	3/4		7.5YR	2.5/2	20			Sandy Loam	buried organics		
7-12	10YR	3/3	100						Sand			
						-						
						-		-				
¹Type: C=Con	centration. D=	Depletion.	RM=Reduce						annel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicat	ors for Pro	blematic	Hydric S	oils: ³				
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA4	1)4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	edon (A2)			Alas	ka Alpine sv	vales (TA5	5)		Underlying Layer			
Hydrogen :	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	(S)		
Thick Dark	Surface (A12)			3 One i	adicator of h	v.dronhv#	ic vogotatic	n one prin	mary indicator of wetland h	vidrology		
Alaska Gley				and an	appropriate	landscap	e position i	must be pro	esent	ydiology,		
Alaska Red				4 Give	letails of col	lor change	in Demarl	ve .				
Alaska Gle	yed Pores (A15)		Give	ietalis di col	or change	e iii Keiiiaii	NS				
Restrictive Laye	er (if present):											
Type:	,								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):											
HYDROLO	GY											
Wetland Hydr	ology Indicat	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	sufficient)							Water Stained Leaves (B9)			
Surface Water (A1)					Inundation Visible on Aerial Imagery (B7)					atterns (B10)		
High Water Table (A2)					Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation	Ma	Marl Deposits (B15)					f Reduced Iron (C4)					
Water Mar				`	drogen Sulf				☐ Salt Depos			
	Deposits (B2)			_	y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Ot	her (Explain	in Remai	rks)			ic Position (D2)		
	or Crust (B4)									uitard (D3)		
☐ Iron Depo	. ,								☐ Microtopog	raphic Relief (D4)		
Field Observa	oil Cracks (B6)								FAC-fleutra	il Test (D3)		
Surface Water		Yes ()	No •	De	epth (inches	١.						
			No •			•		Wetle.	d 11duala Dua.a	t? Yes O No 💿		
Water Table P		_	_	D€	epth (inches	·):		wetia	nd Hydrology Presen	t? Yes O NO S		
Saturation Pre (includes capil		Yes O	No 💿	De	epth (inches):						
Describe Record	ded Data (strea	ım gauge,	monitor wel	l, aerial p	hotos, previ	ous inspe	ction) if ava	ailable:				
Remarks:												
no hydrology indicators observed												

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