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Appendix 1

Mean percentage cover ($\bar{x}$) and frequency (fr) of vascular plant and moss species in the sampling locations of pristine, drained and restored mires. Abbr. = abbreviations of the names used in the NMDS ordination plots. N = number of sampling locations (total N = 162). Differences in the covers among treatments were tested with Kruskal-Wallis rank sum test (H, df = 2; treatments not sharing the same letter differed significantly according to a posteriori test with critical $\alpha = 0.05$; test statistics are given for species occurring in > 9% of the sampling locations). We adjusted the original p-values (p adj. in the Appendix) to control false discovery rate in multiple testing using the method in Benjamini and Yekutieli (2001).

Species	Abbr.	Treatment						Total		Test statistics	
		Pristine (N = 54)		Drained (N = 48)		Restored (N = 60)					
		$\bar{x}$	fr	$\bar{x}$	fr	$\bar{x}$	fr	$\bar{x}$	fr	H	p adj.
Andromeda polifolia L.	Andpol	1.5 a	54	0.8 b	36	0.9 b	54	1.1	144	26.22	< 0.0001
Aulacomnium palustre (Hedw.) Schwägr.	Aulpal	0.3 a	14	1.7 b	30	1.2 b	32	1.1	76	19.19	0.0009
Betula nana L.	Betnan	1.3	42	1.8	33	2.5	51	1.9	126	4.51	0.5101
Betula pubescens Ehrh.	Betpub	0.0	0	0.0	4	0.1	7	0.0	11		
Calamagrostis arundinacea (L.) Roth	Calaru	0.0	0	0.0	0	0.0	1	0.0	1		
Calluna vulgaris (L.) Hull	Calvul	4.4 a	26	2.7 a	13	2.2 a	17	3.1	56	8.12	0.0922
Carex brunnescens (Pers.) Poir.	Carbru	0.0	0	0.0	1	0.0	0	0.0	1		
Carex canescens L.	Carcan	0.0	0	0.0	0	0.2	2	0.1	2		
Carex chordorrhiza L. f.	Carcho	0.0	1	0.0	0	0.0	0	0.0	1		
Carex echinata Murray	Carech	0.0	0	0.0	0	0.0	1	0.0	1		
Carex globularis L.	Carglo	0.0 a	1	0.7 a	12	0.4 a	10	0.4	23	11.62	0.0219
Carex lasiocarpa Ehrh.	Carlas	0.1	6	0.0	3	0.0	1	0.1	10		
Carex limosa L.	Carlim	0.4 a	18	0.0 b	0	0.0 b	0	0.1	18	40.07	< 0.0001
Carex paupercula Michx.	Carmag	0.0	0	0.0	0	0.0	2	0.0	2		
Carex pauciflora Lightf.	Carpau	0.2 a	36	0.0 b	3	0.0 b	11	0.1	50	57.46	< 0.0001
Carex rostrata Stokes	Carros	0.1 a	17	0.0 b	0	0.0 b	1	0.0	18	34.19	< 0.0001
Chamaedaphne calyculata (L.) Moench	Chacal	0.7	24	0.6	19	0.7	29	0.7	72	0.48	1.0000
Cladopodiella fluitans (Nees) H.Buch	Claflu	0.1	3	0.0	0	0.0	0	0.0	3		
Dactylorhiza maculata (L.) Soó	Dacmac	0.0	1	0.0	0	0.0	0	0.0	1		
Dicranum undulatum Schrad. ex Brid.	Dicber	0.0 a	4	0.0 a	1	0.1 a	13	0.1	18	11.55	0.0219

Dicranella cerviculata (Hedw.) Schimp.	Diccer	0.0		0		0.0		0		0.0		1		0.0	1				
Dicranum fuscescens Sm.	Dicfus	0.0		0		0.0		2		0.0		2		0.0	4				
Dicranum majus Sm.	Dicmaj	0.0		1		0.0		8		0.0		2		0.0	11				
Dicranum polysetum Sw. ex anon.	Dicpol	0.0	a	2		0.8	b	26		0.1	a	17		0.3	45	35.92	<	0.0001	
Dicranum scoparium Hedw.	Dicsco	0.0	a	0		0.3	a	10		0.0	a	5		0.1	15	13.37		0.0098	
Drosera longifolia L.	Drolon	0.0		7		0.0		0		0.0		0		0.0	7				
Drosera rotundifolia L.	Drorot	0.1	a	44		0.0	b	4		0.0	b	9		0.0	57	77.99	<	0.0001	
Dryopteris carthusiana (Vill.) H. P. Fuchs	Drycar	0.0		0		0.1		3		0.0		0		0.0	3				
Empetrum nigrum L.	Empnig	3.6		52		4.7		42		4.1		50		4.1	144	0.92		1.0000	
Epilobium angustifolium L.	Epiang	0.0		0		0.0		0		0.0		1		0.0	1				
Equisetum palustre L.	Equpal	0.0		0		0.0		0		0.0		1		0.0	1				
Equisetum sylvaticum L.	Equsyl	0.0		1		0.0		0		0.0		0		0.0	1				
Eriophorum vaginatum L.	Erivag	8.7	a	52		3.3	b	40		16.6	a	56		10.1	148	39.86	<	0.0001	
Festuca pratensis Huds.	Fespra	0.0		0		0.0		1		0.0		0		0.0	1				
Hieracium	Hieracium	0.0		0		0.0		1		0.0		0		0.0	1				
Hylocomium splendens (Hedw.) Schimp.	Hylspl	0.0		0		0.2		6		0.3		1		0.2	7				
Juncus filiformis L.	Junfil	0.0		1		0.0		0		0.0		0		0.0	1				
Ledum palustre L.	Ledpal	0.1	a	15		0.5	ab	14		1.3	b	28		0.7	57	9.12		0.0647	
Lepidozia reptans (L.) Dumort.	Leprep	0.0		0		0.0		0		0.0		1		0.0	1				
Lycopodium annotinum L.	Lycann	0.0		0		0.0		1		0.0		0		0.0	1				
Melampyrum pratense L.	Melpra	0.0		2		0.0		3		0.0		4		0.0	9				
Melampyrum sylvaticum L.	Melsyl	0.0		1		0.0		3		0.0		1		0.0	5				
Menyanthes trifoliata L.	Mentri	0.1		6		0.0		0		0.0		1		0.0	7				
Molinia caerulea (L.) Moench	Molcae	0.0		2		0.0		1		1.6		5		0.6	8				
Mylia anomala (Hook.) Gray	Mylano	0.3	a	24		0.1	a	11		0.3	a	15		0.2	50	8.13		0.0922	
Orthilia secunda (L.) House	Ortsec	0.0		0		0.0		1		0.0		0		0.0	1				
Picea abies (L.) H. Karst.	Picabi	0.0		0		0.0		0		0.1		3		0.0	3				
Pinus sylvestris L.	Pinsyl	0.2		26		0.0		13		0.1		23		0.1	62	4.36		0.5333	
Plagiothecium	Plagiot	0.0		0		0.0		4		0.0		1		0.0	5				
Pleurozium schreberi (Willd. ex Brid.) Mitt.	Plesch	1.3	a	20		31.7	b	43		14.4	c	47		15.2	110	61.24	<	0.0001	
Pohlia nutans (Hedw.) Lindb.	Pohnut	0.0	a	0		0.0	a	6		0.0	a	9		0.0	15	8.49		0.0846	
Polytrichum commune Hedw.	Polcom	0.0	a	0		0.6	a	9		1.6	a	12		0.8	21	11.96		0.0194	
Polytrichastrum longisetum (Sw. ex Brid.)	Pollon	0.0		0		0.0		1		0.0		1		0.0	2				

G.L.Sm.															
Polytrichum strictum Menzies ex Brid.	Polstr	1.1	a	29	2.9	ab	31	4.6	b	47	2.9	107	11.36	0.0230	
Ptilidium ciliare (L.) Hampe	Pticil	0.0		1	0.0		0	0.0		0	0.0	1			
Rhynchospora alba (L.) Vahl	Rhyalb	0.2		4	0.0		0	0.0		0	0.1	4			
Rubus chamaemorus L.	Rubcha	2.5	ab	42	4.0	a	39	2.1	b	38	2.8	119	7.26	0.1334	
Salix myrsinifolia Salisb.	Salmyr	0.0		0	0.0		2	0.0		0	0.0	2			
Scheuchzeria palustris L.	Schpal	0.0		4	0.0		0	0.0		0	0.0	4			
Sorbus aucuparia L.	Sorauc	0.0		0	0.0		1	0.0		0	0.0	1			
Sphagnum angustifolium (C.E.O.Jensen ex Russow) C.E.O.Jensen	Sphang	21.7		41	18.7		42	18.7		52	19.7	135	0.31	1.0000	
Sphagnum balticum (Russow) C.E.O.Jensen	Sphbal	8.7	a	24	0.0	b	0	1.1	ab	15	3.3	39	29.93	< 0.0001	
Sphagnum capillifolium (Ehrh.) Hedw.	Sphcap	0.0		0	0.1		1	0.0		1	0.0	2			
Sphagnum cuspidatum Ehrh. ex Hoffm.	Sphcus	0.0		1	0.0		0	0.3		3	0.1	4			
Sphagnum fallax (H.Klinggr.) H.Klinggr.	Sphfal	12.9	a	20	0.0	b	0	4.6	a	21	6.0	41	22.80	< 0.0001	
Sphagnum fuscum (Schimp.) H.Klinggr.	Sphfus	30.3	a	46	7.7	b	20	11.4	b	39	16.6	105	33.11	< 0.0001	
Sphagnum girgensohnii Russow	Sphgir	0.0		0	0.1		1	0.0		1	0.0	2			
Sphagnum magellanicum Brid.	Sphmag	4.3	a	44	2.9	ab	30	2.1	b	42	3.1	116	7.45	0.1254	
Sphagnum majus (Russow) C.E.O.Jensen	Sphmaj	2.9		9	0.0		0	0.2		2	1.0	11			
Sphagnum papillosum Lindb.	Sphpap	7.5	a	20	0.0	b	0	1.1	b	4	2.9	24	32.39	< 0.0001	
Sphagnum pulchrum (Lindb. ex Braithw.) Warnst.	Sphpul	0.2		2	0.0		0	0.0		0	0.1	2			
Sphagnum riparium Ångstr.	Sphrip	0.0		0	0.0		0	0.0		1	0.0	1			
Sphagnum rubellum Wilson	Sphrub	0.6	a	17	0.0	b	1	0.0	ab	4	0.2	22	23.24	< 0.0001	
Sphagnum russowii Warnst.	Sphrus	0.7	ab	21	1.2	b	12	6.4	a	29	3.0	62	8.44	0.0846	
Sphagnum squarrosum Crome	Sphsqu	0.0		0	0.0		0	0.0		3	0.0	3			
Sphagnum tenellum (Brid.) Pers. ex Brid.	Sphten	0.1		9	0.0		0	0.0		1	0.0	10			
Straminergon stramineum (Dicks. ex Brid.) Hedenäs	Strastr	0.0		0	0.0		0	0.0		5	0.0	5			
Trichophorum cespitosum (L.) Hartm.	Trices	1.6	a	13	0.0	a	2	0.0	a	0	0.6	15	22.04	< 0.0001	
Trientalis europaea L.	Trieur	0.0		0	0.0		1	0.0		4	0.0	5			
Vaccinium microcarpum (Turcz. ex Rupr.) Schmalh.	Vacmic	0.1	a	46	0.1	b	23	0.0	b	37	0.1	106	24.02	< 0.0001	
Vaccinium myrtillus L.	Vacmyr	0.0	a	3	2.7	b	19	0.6	ab	10	1.0	32	20.41	< 0.0001	

Vaccinium oxycoccos L.	Vacoxy	0.2		51	0.3		37	0.2		53	0.2	141	0.67	1.0000
Vaccinium uliginosum L.	Vaculi	1.6	a	37	3.2	ab	35	5.0	b	48	3.3	120	9.26	0.0635
Vaccinium vitis-idaea L.	Vacvit	0.1	a	4	5.7	b	26	0.8	b	21	2.0	51	30.41	< 0.0001