

Supplementary Content Table A.1. Mo content of
Oxidizable extraction performed non-sequentially, and
reducible extraction using 0.4 M NH₂OH HCl

Site	Reducible	Oxidizable
	0.04 M NH ₂ OH HCl	H ₂ O ₂
	ng g ⁻¹	ng g ⁻¹
<i>Sedimentary</i>		
Lake	5.1	126
Devitt	9.7	274
Steere	10.1	277
7	2.8	147
56	8.7	256
43	12.9	167
Trask	6.7	339
HC1	14.2	494
108B	5.4	282
WOW1	11.0	422
143	4.0	337
<i>basaltic</i>		
NFT	5.1	129
Jensen	0.5	208
Stein	1.9	112
19	1.9	196
WP1	5.4	246
14	7.3	283
Hoag	11.5	215
60	1.7	54
8	2.9	196
RR1	14.9	448
BC1	7.7	284
<i>mixed sedimentary and basalt</i>		
54	4.2	243
GV1	7.7	185

Supplementary Content Table A.2. Fe, Mn, and Al content of Reducible extractions for 0-10 cm depth increment

Site	Reducible Fe	Reducible Al	Reducible Mn	Reducible Fe	Reducible Al	Reducible Mn
	0.04 M NH ₂ OH HCl	0.04 M NH ₂ OH HCl	0.04 M NH ₂ OH HCl	0.1 M NH ₂ OH HCl	0.1 M NH ₂ OH HCl	0.1 M NH ₂ OH HCl
	ng g ⁻¹	ng g ⁻¹	ng g ⁻¹	ng g ⁻¹	ng g ⁻¹	ng g ⁻¹
<i>Sedimentary</i>						
Lake	3246	2400	589	3009	2956	785
Devitt	4152	3973	2081	4885	4649	2114
Steere	3911	6182	826	4313	6619	785
7	5667	6585	2245	6213	7004	1996
56	5004	5757	790	4904	5864	727
43	5785	10700	989	6408	10629	964
Trask	8197	9082	679	10656	10139	691
HC1	6813	10103	1620	7464	9579	1410
108B	6837	7088	1404	9380	8110	1369
WOW1	6310	8964	627	7434	9807	643
143	5761	7857	180	5810	7689	169
<i>basaltic</i>						
NFT	4869	5453	1096	5881	6224	1120
Jensen	5878	6995	4233	6492	7251	4209
Stein	7980	10075	2374	8658	9864	2365
19	7482	8577	931	9193	9403	913
WP1	8036	9769	621	9429	10869	629
14	9983	8148	1061	13100	9512	1026
Hoag	7971	10574	1126	8403	10510	1097
60	7968	11544	1343	8943	12458	1362
8	9798	9538	1519	11210	10226	1485
RR1	10521	13990	341	12483	14799	336
BC1	10335	13022	1068	10628	13531	1115
<i>mixed sedimentary and basalt</i>						
54	7342	11886	1232	5997	11889	1154
GV1	10704	7381	93	14378	9160	103

Supplementary Content Table A.3. Profile integrated pools of Fe, Mo, C, and N, 0-1 m depth

Site	Fe g cm ⁻²	Mo μg cm ⁻²	N Mg ha ⁻¹	C Mg ha ⁻¹
<i>Sedimentary</i>				
Lake	3.00	156	8.7	117
Devitt*	1.99	111	6.9	114
Steere	2.73	153	11.7	191
7*	3.42	99	7.9	138
56	2.38	117	13.6	196
43*	1.17	54	12.9	226
Trask	3.16	190	11.1	182
HC1	3.19	148	15.5	226
108B	3.48	164	12.2	192
WOW1	2.83	159	16.1	268
143	3.32	151	15.9	285
<i>basaltic</i>				
NFT*	5.12	92	5.6	115
Jensen	10.91	145	8.6	176
Stein	9.34	65	6.8	147
19	4.88	124	6.5	129
WP1*	2.48	81	5.4	123
14	4.27	109	9.9	143
Hoag	7.41	127	9.4	200
60	2.62	32	9.1	146
8	5.25	47	11.2	193
RR1	5.79	160	13.5	149
BC1	5.29	97	17.7	313
<i>mixed sedimentary and basalt</i>				
54	6.44	118	10.7	191
GV1	3.37	120	13.1	242

*These sites are integrated over 0-70 cm only.

