

TABLE S2 Chemical composition of the drilled profile trough nodule 44KG-2 (ICP-OES data; wt%)

distance from the surface to the core		Mn	Fe	Ni	Cu	Co	Zn	Mn/Fe	Ni+Cu	Na	K	Al	Ca	Mg	Ba
surface ↓	0.5-2mm	33.70	7.27	1.27	1.14	0.15	0.17	4.64	2.41	3.66	0.89	2.09	1.73	1.95	0.17
	2-4mm	36.00	6.41	1.54	1.40	0.16	0.14	5.62	2.94	3.09	0.95	2.44	1.74	1.83	0.17
	4-6mm	34.30	5.74	1.68	1.38	0.17	0.14	5.98	3.06	2.65	0.96	2.95	1.74	1.94	0.23
	6-8mm	31.00	5.80	1.42	1.16	0.12	0.12	5.34	2.58	2.44	0.90	2.46	1.71	1.63	0.30
	8-10mm	32.90	7.31	1.22	1.17	0.16	0.11	4.50	2.39	2.27	0.96	2.14	1.55	1.76	0.32
	10-12mm	36.90	4.65	1.18	1.35	0.09	0.13	7.94	2.53	1.89	1.17	1.97	1.28	2.10	0.34
	12-14mm	38.10	5.00	1.41	1.67	0.15	0.15	7.62	3.08	2.25	1.50	3.07	1.30	2.77	0.38
	14-16mm	35.80	3.09	1.33	1.59	0.21	0.14	11.6	2.92	2.02	1.30	3.21	1.21	2.58	0.46
	18-20mm	33.50	2.89	1.11	1.41	0.21	0.12	11.6	2.52	2.06	1.50	3.62	1.12	2.50	0.59
	20-22mm	33.20	2.44	1.03	1.24	0.18	0.11	13.6	2.27	1.95	1.46	3.24	1.02	2.28	0.67
	22-24mm	35.60	2.37	1.07	1.22	0.16	0.10	15.0	2.29	2.03	1.63	3.34	1.09	2.30	0.68
	24-26mm	39.90	2.46	1.14	1.32	0.15	0.12	16.2	2.46	1.95	1.63	2.95	1.18	2.40	0.58
near core	26-28mm	39.50	3.40	1.46	1.50	0.14	0.14	11.6	2.96	1.87	1.30	2.12	1.26	2.42	0.43
	28-30mm	34.10	6.77	1.48	1.27	0.21	0.17	5.04	2.75	2.04	1.04	2.32	1.73	1.98	0.36
	30-32mm	36.00	4.67	1.22	1.30	0.18	0.13	7.71	2.52	1.55	1.35	2.43	1.29	2.31	0.44