

## Supplementary Material

Table S1. Trace elements concentrations. Data for monitoring surveys: January, April, July and October

January					
Samples	Fe [ppm]	Mn [ppm]	Ni [ppm]	Co [ppm]	Zn [ppm]
AD16	124.94	79.9	5.95	1.93	24.81
AD17	17.65	24.28	2.39	0.64	6.99
AD47	151.53	75.9	4.51	1.67	17.34
AD63	14.83	20.40	2.01	0.54	5.87
AD60	16.61	22.84	2.25	0.60	6.58
AD32	22.21	17.80	3.98	0.87	9.43
AD64	21.32	17.09	3.82	0.84	9.05
AD85	29.00	23.24	5.20	1.14	12.31
AP	26.39	21.15	4.73	1.03	11.20
PE1	188.10	96.68	7.20	2.34	30.02
PE2	220.08	113.11	8.42	2.73	35.12
P1	25.81	20.68	4.62	1.01	10.96
P6	29.01	23.25	5.20	1.14	12.32
PM1	26.07	20.89	4.67	1.02	11.07
P5	18.10	24.90	2.45	0.66	7.17
April					
Samples	Fe [ppm]	Mn [ppm]	Ni [ppm]	Co [ppm]	Zn [ppm]
AD16	153.68	98.28	7.32	2.37	30.52
AD13	149.07	95.33	8.50	2.45	39.60
AD47	25.28	20.26	4.53	0.99	10.74
AD68	284.30	181.81	13.54	4.39	56.46
AD73	275.77	176.36	22.34	5.54	82.81
AP	23.75	19.03	4.26	0.93	10.08
July					
Samples	Fe [ppm]	Mn [ppm]	Ni [ppm]	Co [ppm]	Zn [ppm]
AD13	2.22	1.78	0.40	0.09	0.94
AD16	225.90	144.47	10.76	4.40	63.23
P1	13.62	18.73	1.84	0.49	5.39
P4	15.25	20.98	2.07	0.55	6.04
P5	17.08	23.50	2.31	0.62	6.76

P6	19.13	26.32	2.59	0.69	7.58
P12	21.43	29.47	2.90	0.78	8.49
PM1	24.00	33.01	3.25	0.87	9.50
P13	26.88	36.97	3.64	0.97	10.64
ADF	30.10	41.41	4.08	1.09	11.92
PE1	357.39	183.69	13.68	4.44	57.04
PE2	314.50	214.92	16.00	5.19	66.73

October

Samples	Fe [ppm]	Mn [ppm]	Ni [ppm]	Co [ppm]	Zn [ppm]
AP	30.10	41.41	4.08	1.09	11.92
AD10	33.71	46.38	4.57	1.22	13.35
AD16	189.02	120.88	9.00	5.30	41.43
AD17	26.14	35.96	3.54	0.95	10.35
AD53	36.72	50.52	4.97	1.33	14.54
AD68	28.30	38.92	3.83	1.03	11.21
AD71	31.69	43.59	4.29	1.15	12.55
AD76	36.19	49.79	4.90	1.31	14.33
AD55	24.57	33.80	3.33	0.89	9.73
AD56	41.13	56.58	5.57	1.49	16.29
AD58	21.43	29.47	2.90	0.78	8.49
AD59	24.00	33.01	3.25	0.87	9.50
AD73	39.90	54.88	5.40	1.45	15.80
AD13	35.11	48.30	4.75	1.27	13.90
ADF	30.90	42.50	4.18	1.12	12.24
P1	27.19	37.40	3.68	0.99	10.77
P4	23.93	32.91	3.24	0.87	9.48
P5	21.05	28.96	2.85	0.76	12.12
P6	18.53	25.49	2.51	0.67	10.67
PM1	16.30	22.43	2.21	0.59	9.39
P12	18.26	25.12	2.47	0.66	10.51
P13	20.45	28.14	2.77	0.74	11.77
PE1	142.96	73.48	5.47	1.77	22.82
PE2	167.26	85.97	6.40	2.08	26.69