

ESI 2. Matrix pattern in fish and soil test samples

Sample	Dilution factor	Metal concentration ( $\mu\text{g L}^{-1}$ )										Anion concentration ( $\text{mg L}^{-1}$ )				TOC ( $\text{mg L}^{-1}$ )		
		Cu	Pb	Zn	Fe	Mn	Co	Ni	Ag	Cd	As	Cr	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	NO <sub>3</sub> <sup>-</sup>		F <sup>-</sup>	PO <sub>4</sub> <sup>3-</sup>
Fish																		
F1	100	0.3	0.03	5.1	14	1.1	0.02	0.2	0.002	-	0.04	0.05	0.4	0.6	220	-	0.1	15
F2	100	0.3	0.04	1.6	5.1	0.3	0.005	0.2	0.004	-	0.04	0.04	0.4	0.5	245	-	0.3	12
F3	100	0.3	0.03	1.5	6.1	0.2	0.003	0.06	0.001	-	0.03	0.07	0.3	0.6	315	-	0.3	15
F4	100	0.3	0.03	1.2	5.0	0.1	0.003	0.07	0.03	-	0.004	0.06	0.6	0.5	260	-	0.2	40
F5	100	0.5	0.1	2.7	14	0.2	0.01	0.4	0.05	-	0.06	0.09	0.4	0.5	205	-	0.1	17
F6	100	0.3	0.04	2.5	15	1.4	0.02	0.3	0.02	-	0.2	0.2	0.6	0.4	280	-	0.3	13
Soil																		
S1	100	10	35	30	3500	33	2.3	40	0.10	0.05	6.3	30	1.5	0.5	1075	78	0.3	1.8
S2	100	3.8	6.5	18	3050	43	1.8	11	0.08	0.05	1.5	19	1.5	0.3	975	88	0.1	11
S3	5000	0.5	85	4.5	950	20	16	3.0	1.5	30	30	30	1.0	2.5	1100	90	0.08	0.1
S4	5000	11	3.1	26	470	35	6.3	6.5	2.6	5.8	3.5	8.2	0.7	0.05	460	35	0.01	0.1
S5	250	2.0	2.1	8.5	1360	24	0.5	5.1	0.03	0.03	1.4	5.3	0.5	0.1	445	33	0.05	1.2
S6	25	4.0	4.3	20	2240	41	1.0	5.5	0.06	0.01	0.2	4.3	1.8	1.0	1500	110	0.08	12