Supplementary data for article:

Sakan, S.; Sakan, N.; Anđelković, I.; Trifunović, S.; Đorđević, D. Study of Potential Harmful Elements (Arsenic, Mercury and Selenium) in Surface Sediments from Serbian Rivers and Artificial Lakes. *Journal of Geochemical Exploration* **2017**, *180*, 24–34.
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Supplementary materials

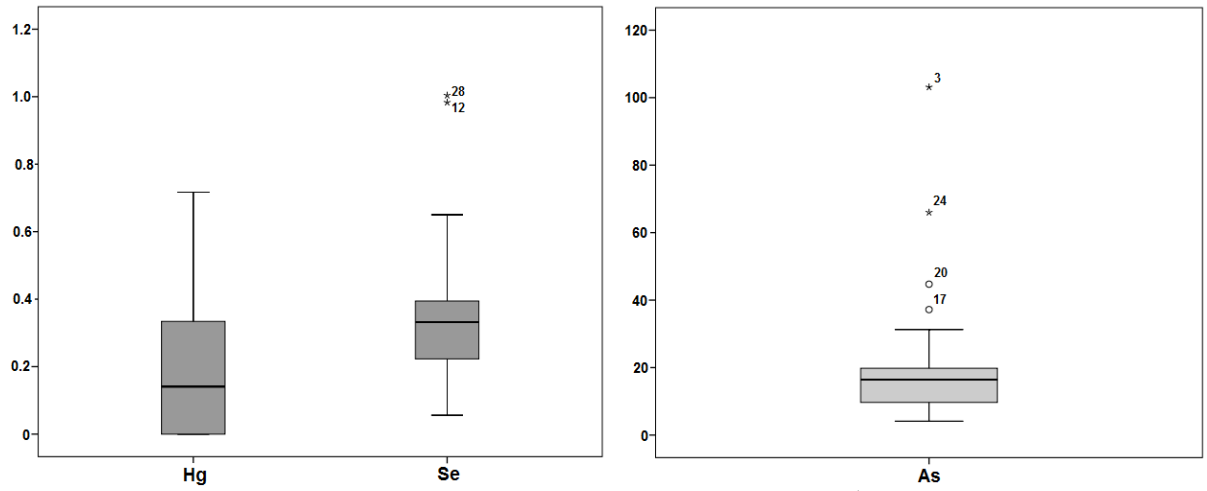
Supplementary Table 1
Content of studied elements (Ca, Fe, K, Mg, Mn – mg kg^{-1}; C, H, N, S – %)

	Ca	Fe	K	Mg	Mn	C	H	N	S
1	29490	43092	12887	11064	1559	2.5	0.85	0.22	0.37
2	20112	44192	14535	8193	987	4.57	1.16	0.48	0.49
3	30698	49360	6359	17826	1087	2.92	0.86	0.22	0.47
4	8492	47357	10405	10707	981	1.53	0.87	0.16	0.29
5	18039	39812	10978	10525	924	2.11	0.74	0.19	0.25
6	75603	20299	5089	17646	507	4.47	0.45	0.17	0.2
7	82977	32922	9575	24983	1070	5.16	0.66	0.24	0.2
8	81589	33599	12015	24560	814	5.06	0.65	0.18	0.21
9	65580	32329	11196	20050	712	4.62	0.74	0.19	0.2
10	33546	39605	10349	11762	795	2.88	0.91	0.18	0.19
11	58064	30911	7846	17251	651	4.15	0.65	0.19	0.2
12	24946	45093	8609	15979	648	5.7	1.28	0.52	0.36
13	18217	71873	14587	15288	916	0.54	1.1	0.1	0.19
14	24271	50230	11327	12473	3185	4.57	1.19	0.48	0.29
15	37304	39055	9090	12588	929	3.67	0.91	0.3	0.2
16	33826	40308	8193	11133	1006	3.05	0.78	0.25	0.2
17	10161	53115	12902	13403	885	2.82	1.07	0.3	0.2
18	59351	34236	8956	8011	549	4.35	1.3	0.71	0.36
19	75064	35348	10316	23141	1002	5.26	0.84	0.26	0.2
20	9966	53238	12431	13297	1020	2.71	1.07	0.26	0.2
21	19704	44381	12441	11450	1512	2.12	0.86	0.19	0.2
22	17527	38621	10471	10461	1046	2.08	0.8	0.22	0.2
23	41623	44238	11907	14110	1035	3.13	1.01	0.21	0.2
24	31086	42619	6236	21708	975	3.88	1.07	0.3	0.26
25	12723	50212	5431	14709	724	4.57	1.45	0.58	0.19
26	45649	41693	10921	13354	951	2.86	0.72	0.23	0.19
27	32700	39102	7517	10650	882	2.92	0.73	0.24	0.2
28	25251	41485	7448	9625	1301	4.5	1.18	0.43	0.63
29	52108	41890	10126	15230	1318	3.81	0.99	0.24	0.2
30	49674	40687	11266	14202	1254	3.25	0.79	0.22	0.2
31	29746	48068	10551	15312	1274	3.4	1.07	0.35	0.19
32	23742	41619	10011	10829	1352	2.03	0.71	0.17	0.2
33	19707	45144	12091	11475	1596	2.18	0.83	0.21	0.19
34	17381	47067	8927	11146	1171	2.44	0.85	0.23	0.19
35	19444	46038	9804	14897	1259	3.1	0.9	0.32	0.19
36	7383	42719	4935	9364	658	3.21	0.91	0.3	0.19
37	37154	40689	10417	10635	1453	2.72	0.74	0.21	0.2
38	5362	29646	5751	4945	546	2.9	0.87	0.24	0.2
39	32591	39585	8675	17900	732	3.64	0.89	0.3	0.26
40	7357	44098	5407	9705	669	3.45	0.97	0.33	0.19
41	79072	30939	10798	6915	572	5.77	1.01	0.35	0.21
42	70254	29009	7663	7996	511	3.88	0.75	0.21	0.19
43	67146	29262	7343	7885	479	3.98	0.76	0.21	0.19
44	20010	38957	9320	10296	1279	1.84	0.65	0.14	0.2
45	41934	41566	8909	14064	914	3.99	0.95	0.34	0.2
46	20630	43132	10873	10948	1358	2.06	0.81	0.17	0.2
47	50247	40823	11043	14870	1373	3.66	0.87	0.23	0.2
48	36278	38974	9045	14432	870	2.72	0.61	0.17	0.21

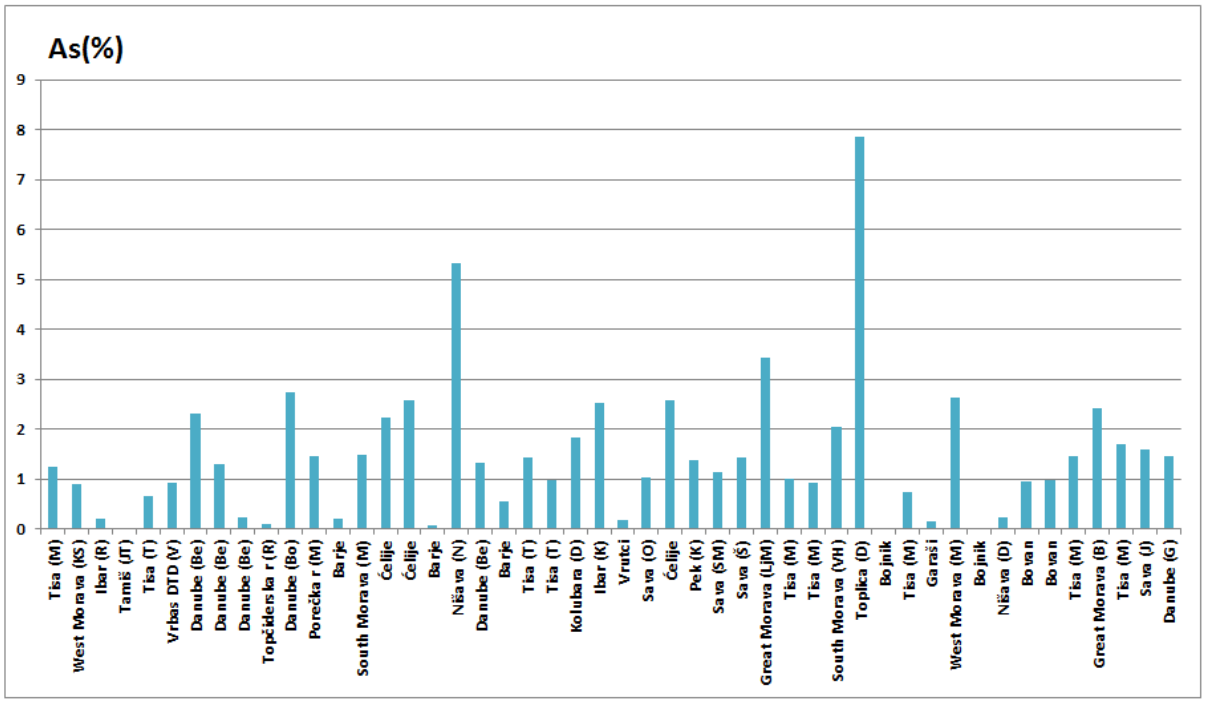
Supplementary Table 2
Matrix of correlation values (r) for elements in studied sediment

	Hg	As	Se	Ca	Fe	K	Mg	Mn	C	H	N	S
Hg	1	0.112	0.068	0.023	-0.043	-0.137	0.150	0.004	0.041	0.092	0.162	-0.144
As		1	0.051	-0.173	**0.323***	-0.012	**0.309****	0.154	-0.091	0.142	-0.001	**0.382****
Se			1	0.075	-0.037	0.135	-0.038	0.201	**0.391****	0.329	0.470	**0.697****
Ca				1	**-0.655****	-0.019	**0.414***	-0.249	**0.619****	-0.370	-0.082	-0.130
Fe					1	**0.414****	-0.009	**0.386****	**-0.488****	**0.536****	0.074	0.106
K						1	0.048	**0.400****	-0.255	0.073	-0.180	-0.010
Mg							1	0.003	**0.350***	-0.164	-0.143	-0.111
Mn								1	-0.192	0.113	0.016	0.125
C									1	0.320	**0.557****	0.223
H										1	**0.788****	**0.394****
N											1	**-0.448****
S												1

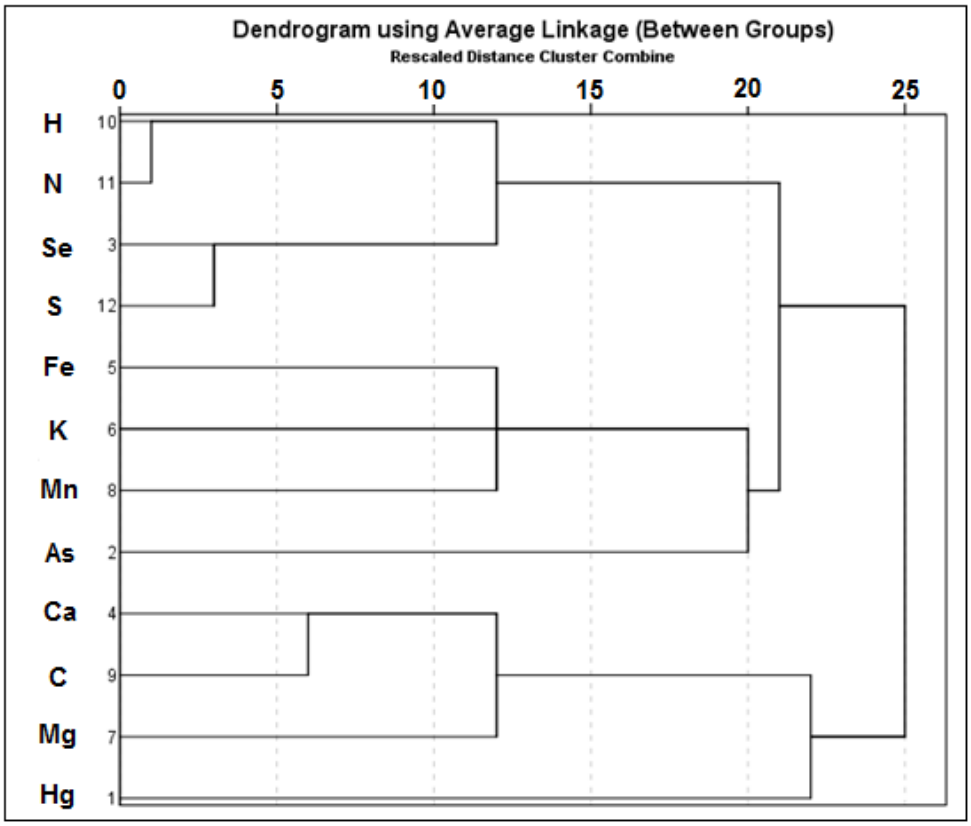
* Correlation is significant at the 0.05 level (2-tailed).
** Correlation is significant at the 0.01 level (2-tailed



Supplementary Figure 1. Boxplot diagrams of the Hg, Se and As (mg kg^{-1}) for the examined area.



Supplementary Figure 2. Percentage of As extracted with ammonium-acetate from sediments of the studied sediments.



Supplementary Figure 3. Dendrogram of R mode cluster analysis.