

Supplementary Material

Transport of Potentially Toxic Elements in Solid Particulate Matter During Flash Flood Events in Upper and Lower Stretch of the Sava River

Tea Zuliani ^{1,2*}, Janja Vidmar ^{1,2}, Janez Ščančar ^{1,2}, Margareta Kračun Kolarević ³, Stoimir Kolarević ³, Momir Paunović ³ and Radmila Milačić ^{1,2}

¹ Department of Environmental Sciences, Jožef Stefan Institute, Jamova 39, 1000 Ljubljana, Slovenia; janja.vidmar@ijs.si (J.V.); janez.scancar@ijs.si (J.Š.); radmila.milacic@ijs.si (R.M.)

² Jožef Stefan International Postgraduate School, Jamova 39, 1000 Ljubljana, Slovenia

³ Institute for Biological Research “Siniša Stanković”, University of Belgrade, Bulevar Despota Stefana 142, 11000 Belgrade, Serbia; margareta.kracun@ibiss.bg.ac.rs (M.K.K.); stoimir.kolarevic@ibiss.bg.ac.rs (S.K.); mpaunovi@ibiss.bg.ac.rs (M.P.)

* Correspondence: tea.zuliani@ijs.si

Citation: Zuliani, T.; Vidmar, J.; Ščančar, J.; Kračun Kolarević, M.K.; Kolarević, S.; Paunović, M.; Milačić, R. Transport of Potentially Toxic Elements in Solid Particulate Matter During Flash Flood Events in Upper and Lower Stretch of the Sava River. *Water* **2022**, *14*, 1213. <https://doi.org/10.3390/w14081213>

Academic Editor: Heiko L. Schoenfuss

Received: 1 February 2022

Accepted: 4 April 2022

Published: 9 April 2022

Publisher’s Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Copyright: © 2022 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

Table S1. Concentrations of Pb, Cd, As, Cu, Cr, Ni and Zn in the dissolved phase during the flood event at Litija sampling site.

Date and Time of Sampling	As (µg/L)	Cr (µg/L)	Cu (µg/L)	Ni (µg/L)	Zn (µg/L)	Cd (µg/L)	Pb (µg/L)
1.5.2016	0.237	0.190	0.788	0.373	0.745	<0.004	<0.003
2.5.2016	0.227	0.224	0.850	0.312	0.759	<0.004	<0.003
15.5.2016	0.290	0.266	1.156	0.496	0.353	<0.004	<0.003
15.5.2016	0.274	0.245	1.265	0.490	0.459	<0.004	<0.003
15.5.2016	0.256	0.273	1.020	0.446	0.382	<0.004	<0.003
15.5.2016	0.262	0.264	0.941	0.401	0.282	<0.004	<0.003
16.5.2016	0.255	0.300	0.913	0.354	0.200	<0.004	<0.003
16.5.2016	0.229	0.278	0.834	0.337	0.220	<0.004	<0.003
17.5.2016	0.248	0.359	0.775	0.387	0.260	<0.004	<0.003
18.5.2016	0.263	0.379	0.721	0.416	0.426	<0.004	<0.003
19.5.2016	0.270	0.356	0.844	0.471	0.965	<0.004	<0.003
23.5.2016	0.303	0.425	0.577	0.500	1.036	<0.004	<0.003

Table S2. Concentrations of Pb, Cd, As, Cu, Cr, Ni and Zn in the dissolved phase during the flood event Belgrade sampling site.

Date and Time of Sampling	As (µg/L)	Cd (µg/L)	Cr (µg/L)	Cu (µg/L)	Pb (µg/L)	Ni (µg/L)	Zn (µg/L)
08.03.2016 17-00	0,84	<0.004	0,373	1,00	<0.003	1,90	1,36
09.03.2016 07-00	0,96	<0.004	0,326	1,07	<0.003	1,97	2,50
09.03.2016 17-00	1,43	<0.004	0,335	1,02	<0.003	1,05	1,40
10.03.2016 07-00	1,22	<0.004	0,315	0,95	<0.003	1,18	3,20
10.03.2016 17-00	1,49	<0.004	0,318	0,85	<0.003	0,90	2,43
11.03.2016. 07-00	1,10	<0.004	0,349	0,93	<0.003	1,02	0,63
11.03.2016. 17-00	1,04	<0.004	0,360	0,76	<0.003	1,08	1,30
12.03.2016 08-00	0,86	<0.004	0,380	0,82	<0.003	1,48	1,19
12.03.2016. 17-00	0,92	<0.004	0,380	1,05	<0.003	1,49	1,86
13.03.2016 08-00	0,91	<0.004	0,381	0,97	<0.003	1,49	1,52
13.03.2016. 17-00	0,93	<0.004	0,421	0,98	<0.003	1,38	1,93
16.03.2016 8-00	0,94	<0.004	0,477	0,99	<0.003	1,29	1,95
18.03.2016. 17-00	0,87	<0.004	0,443	0,86	<0.003	1,05	0,49
22.03.2016 17-00	0,80	<0.004	0,379	1,94	<0.003	1,11	0,70

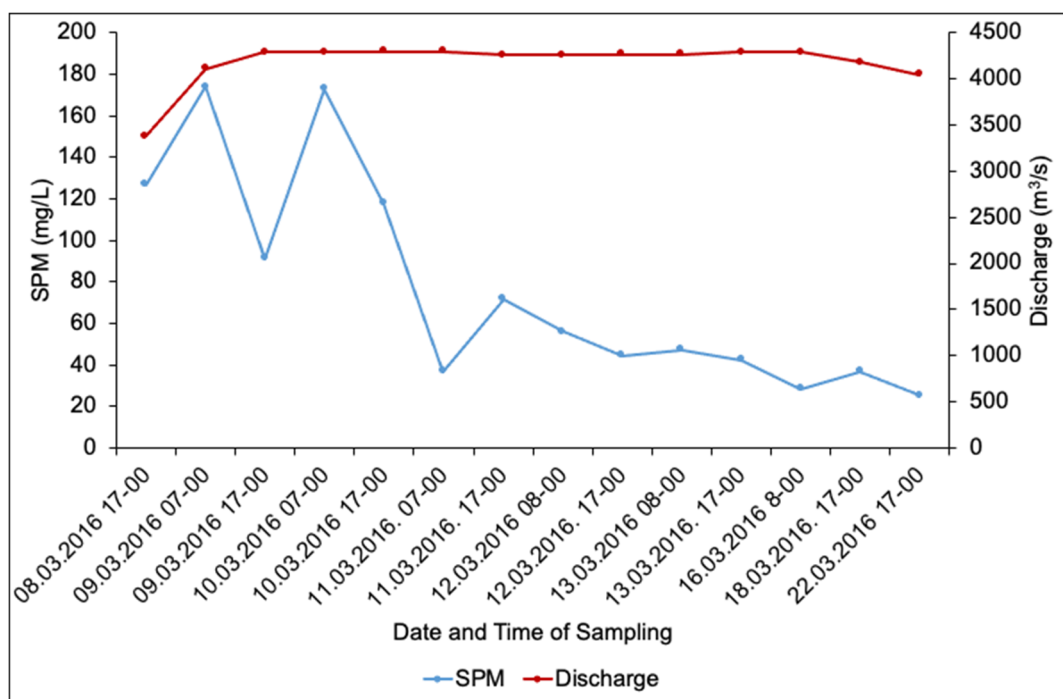


Figure S1. Amount of SPM *versus* discharge at Sremska Mitrovica, Serbia (70 km upstream Belgrade sampling point).