

Table 1. October 2021.

Classification				IV	IV	II	IV	IV
No.				1	18	19	22	23
Water sample mark				W1	W5-14	W6	W9	W10
Sampling location				Robule accumulation	Bor River 14th profile	Krivelj River	Bela River after conf. Ravna River	Bela River before conf. Timok River
Chemical analysis	Elements	Method	Technique	Measured value:				
	Fe _{tot} , mg/l	SRPS EN ISO 11885:2011	ICPOES	602.3	417.5	0.058	243.6	10.3
	Fe ²⁺ , mg/l							
	Fe ³⁺ , mg/l							
	Mn, mg/l	SRPS EN ISO 11885:2011	ICPOES	108.2	8.7	1.9	6.8	3.4
	Cu, mg/l	SRPS EN ISO 11885:2011	ICPOES	45.3	68.6	0.64	51.3	17.2
	Mo, mg/l	SRPS EN ISO 11885:2011	ICPOES	<0.007	0.007	0.014	<0.007	<0.007
	Zn, mg/l	SRPS EN ISO 11885:2011	ICPOES	16.8	8.2	0.12	7.9	2.8
	As, µg/l	VMK C.g.3:2017	ICPMS	25.3	1976.2	19.3	362.1	7.2
	Ni, µg/l	VMK C.g.3:2017	ICPMS	708.1	7621.1	68.3	5723.1	1862.3
	Pb, µg/l	VMK C.g.3:2017	ICPMS	4.6	412.5	5.8	576.1	182.1
	Cd, µg/l	VMK C.g.3:2017	ICPMS	57.4	562.3	6.7	452.1	112.9
	Cr, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.012	0.034	0.007	0.028	<0.005
	Hg, mg/l	VMK *C.h.1:2015	AAS-Hg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	S, mg/l	SRPS EN ISO 11885:2011	ICPOES	2987.2	1045.2	548.4	896.2	583.1
SO ₄			8754.2	3059.2	1598.8	2567.2	1453.1	
Se, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.17	0.16	<0.033	0.09	0.029	

Table 2. April 2022.

Classification				IV	IV	II	IV	IV
No.				1	18	19	22	23
Water sample mark				W1	W5-14	W6	W9	W10
Sampling location				Robule accumulation	Bor River, 14th profile	Krivelj River	Bela River after flows of Ravna	Bela River before conf. Timok
Chemical analysis	Elements	Method	Technique	Measured value:				
	Fe _{tot} , mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	52.1	<0.007	12.3	0.8
	Fe ²⁺ , mg/l			0.0				
	Fe ³⁺ , mg/l			0.0				
	Mn, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	4.6	3.2	2.6	1.2
	Cu, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	22.1	0.11	7.2	0.10
	Mo, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.00	<0.007	0.014	<0.007	0.006
	Zn, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	6.8	0.008	2.3	0.74
	As, µg/l	VMK C.g.3:2017	ICPMS	0.0	23.6	<2.1	122.3	6.8
	Ni, µg/l	VMK C.g.3:2017	ICPMS	0.0	1821.3	18.9	655.1	263.1
	Pb, µg/l	VMK C.g.3:2017	ICPMS	0.0	271.1	<2.1	51.2	<2.1
	Cd, µg/l	VMK C.g.3:2017	ICPMS	0.0	459.3	0.79	171.1	44.2
	Cr, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	0.011	<0.005	<0.005	<0.005
	Hg, mg/l	VMK *C.h.1:2015	AAS-Hg	0.0	<0.0005	<0.0005	<0.0005	<0.0005
	S, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	1753.2	1475.2	951.1	746.2
SO ₄ , mg/l			0.0	5122.2	4211.3	2785.2	2314.5	
Se, mg/l	SRPS EN ISO 11885:2011	ICPOES	0.0	0.063	<0.033	<0.033	<0.033	

Elaborated by,
Zoran Stevanovic




Cooperation beyond borders.

Interreg-IPA Cross-border Cooperation Romania-Serbia Programme is financed by the European Union under the Instrument for Pre-accession Assistance (IPA II) and co-financed by the partner states in the Programme.

Project RoRS 337- ROMANIA SERBIA NETWORK for assessing and disseminating the impact of copper mining activities on water quality in the cross-border area (RoS-NET2)