

TABLE 1. Physicochemical parameters of the sample collected from Moldova Noua area in summer campaign - 29 August 2022

Sample ID	Location name of the sample	Physicochemical parameters of the sample							Obs
		pH	Redox potential (mV)	Conductivity (μS/cm)	Dissolved oxygen (mg/L)	Turbidity (FNU)	Temperature of sample (°C)	Temperature of air (°C)	
W18	Boșneag River (Moldova Veche)	7.36	-30	850	4.54	13	22.8	28.6	Abundant vegetation
W19	Boșneag River (upstream Moldova Veche)	8.1	-71	1214	4.41	12.7	20	31	Presence of fish, life
W20	Radimna River (Pojejena)	7.56	-42	398	4.65	2.12	21	21.8	
W21	Radimna River (upstream Pojejena)	7.71	-49	390	4.5	4.48	20.07	21.3	
W22	Nera River (Socol)	7.28	-26	370	4.5	3.6	23.4	25	
W23	Nera River (upstream Socol)	7.55	-40	373	4.24	3.58	21.3	20.5	
WU11	Well from village of Coronini, near the pond Boșneag	6.85	-2	624	4	1.02	15.8	30.2	Public fountain, spring type
WU12	Well from village of Moldova Veche, near the pond Boșneag	6.7	8	1155	4.71	1.72	14.9	24.8	Public fountain, drilled
WU13	Well from village of Macesti	6.73	6	950	4.55	0.41	13.9	23.9	Public fountain, drilled



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.

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WU14	Well from village of Divici	dried	dried	dried	dried	dried	dried	dried	dried
S82	Sediments from W18 location (Bosneag River)						22.8	28.6	black, sludgy, bad smell
S83	Sediments from W20 location (Radimna River)						21	21.8	sandy, grey
S84	Sediments from W22 location (Nera River)						23.4	25	black, sludgy, bad smell
S85	Soil near Bosneag tailings pond						31.4	30	sandy, grey, soft, wet after rain
S86	Soil at 200 m in Bosneag tailings pond (N-W direction)						28.6	31	dark brown, sandy, after rain
S87	Soil at 400 m in Bosneag tailings pond (N-W direction)						25.5	31	dark-brown, pale, after rain
S88	Soil at 600 m in Bosneag tailings pond (N-W direction)						27.7	29.3	dark brown, sandy, after rain



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The results obtained for surface water samples showed that pH and conductivity values were in the normal range for all samples analysed; for dissolved oxygen, all the samples belonged to class IV; and for turbidity, samples from the Bosneag River exceeded the normal range, while samples from the Radmina and Nera Rivers were within the normal range.

TABLE 2. Interpretation of results obtain for surface waters and MAC values according to Romanian legislation

No.	Parameters	MAC	Unit	W18	W19	W20	W21	W22	W23
1	pH	6.5 - 8.5		7.36 ↔	8.1 ↔	7.56 ↔	7.71 ↔	7.28 ↔	7.55 ↔
2	Conductivity	2500	μS cm ⁻¹	850 ↔	1214 ↔	398 ↔	390 ↔	370 ↔	373 ↔
3	Dissolved oxygen	9-15	mg/L	4.54	4.41	4.65	4.5	4.5	4.24
		7-9							
		5-7							
		4-5							
		0-4							
4	Turbidity	5	FNU	13 ↑	12.7 ↑	2.12 ↔	4.48 ↔	3.6 ↔	3.58 ↔

↔ - between normal limits; ↑ - above normal limits; green colour – class I, light green colour – class II, yellow colour – class III, orange colour – class IV, red colour – class V.

According to Romanian legislation, all groundwater samples from the Moldova Noua Area had values within the normal range. In the summer, the well from which we take the samples was discovered to be dried.

TABLE 3. Interpretation of results obtain for groundwaters and MAC values according to Romanian legislation

No.	Parameters	MAC	Unit	WU11	WU12	WU13	WU14
1	pH	6.5 - 9.5		6.85 ↔	6.7 ↔	6.73 ↔	dried
2	Conductivity	2500	μS cm ⁻¹	624 ↔	1155 ↔	950 ↔	
3	Dissolved oxygen	5	mg/L	4 ↔	4.71 ↔	4.55 ↔	
4	Turbidity	5	FNU	1.02 ↔	1.72 ↔	0.41 ↔	

↔ - between normal limits; ↑ - above normal limits.