

TABLE 1. Physicochemical parameters of the sample collected from Moldova Noua area in summer campaign - 21 November 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	Boşneag River (Moldova Veche)	8	-63	733	28.3	3.58	8.9	11	normal flow, clean water
W19	Boşneag River (upstream Moldova Veche)	7.8	-65	725	27.2	4.59	9.6	10	normal flow, clean water
W20	Radimna River (Pojejena)	6.98	-5	411	26	8.85	8.7	13.4	normal flow, clean water
W21	Radimna River (upstream Pojejena)	6.54	17	277	27	4.09	10.8	10.7	normal flow, clean water
W22	Nera River (Socol)	8	-61	360	14.7	99.2	9.2	9.3	high flow, cloudy water
W23	Nera River (upstream Socol)	6.56	24	357	12.3	127	9.5	11.3	high flow, cloudy water
WU11	Well from village of Coronini, near the pond Boşneag	7.73	-48	631	31.6	0.57	12.8	11.1	Public well, spring
WU12	Well from village of Moldova Veche, near the pond Boşneag	6.68	7	1150	27.6	1.17	13.8	10.7	Public well, 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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WU13	Well from village of Macesti	6.75	6	818	26.3	0.44	14.9	12.2	Public well, drilled
WU14	Well from village of Divici	6.71	9	599	28	0.25	13.3	13.4	Public well, spring
S82	Sediments from W18 location (Bosneag River)						8.9	11	
S83	Sediments from W20 location (Radimna River)						8.7	13.4	
S84	Sediments from W22 location (Nera River)						9.2	9.3	
S85	Soil near Bosneag tailings pond						7.7	10.1	sandy, grey, soft, wet after rain
S86	Soil at 200 m in Bosneag tailings pond (N-W direction)						8.8	10	dark brown, sandy, after rain, 1m depth
S87	Soil at 400 m in Bosneag tailings pond (N-W direction)						8.8	10	dark brown, loamy, wet
S88	Soil at 600 m in Bosneag tailings pond (N-W direction)						8.8	10	dark brown, loamy, wet



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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 I; and for turbidity, samples from the Nera River and Radimna River from town exceeded the normal range, while samples from the Bosneag River (both samples) and Radimna River - upstream 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		8 ↔	7.8 ↔	6.98 ↔	6.54 ↔	8 ↔	6.56 ↔
2	Conductivity	2500	μS cm ⁻¹	733 ↔	725 ↔	411 ↔	277 ↔	360 ↔	357 ↔
3	Dissolved oxygen	9-15	mg/L	28.3	27.2	26	27	14.7	12.3
		7-9							
		5-7							
		4-5							
		0-4							
4	Turbidity	5	FNU	3.58 ↔	4.59 ↔	8.85 ↑	4.09 ↔	99.2 ↑	127 ↑

↔ - 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. All of the samples analysed for dissolved oxygen had values that were above the range because it was windy, and the samples were taken outside of the well.

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		7.73 ↔	6.68 ↔	6.75 ↔	6.71 ↔
2	Conductivity	2500	μS cm ⁻¹	631 ↔	1150 ↔	818 ↔	599 ↔
3	Dissolved oxygen	5	mg/L	31.6 ↑	27.6 ↑	26.3 ↑	28 ↑
4	Turbidity	5	FNU	0.57 ↔	1.17 ↔	0.44 ↔	0.25 ↔

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