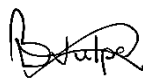


Project title:	ROmania Serbia NETWORK for assessing and disseminating the impact of copper mining activities on water quality in the cross-border area		
eMS:	RoRS 337		
Partners:	WUT		
Author(s):	VULPE Constantina Bianca	Junior Researcher (Chemistry)	
Title of the document:	Sample collection campaign from 15.10.2024 in Moldova Nouă area for sustainability of the RoS-NET2 project: physicochemical parameters		
Document description:	This document contains the physicochemical parameters determined in situ in October 2023 from rivers and wells in the Moldova Noua Area		
Scope / Objective of document:	The goal of this document is to continue to monitor the effects of pollution sourced from tailings from Moldova Noua by assessing the physicochemical parameters of the waters around the pollution area		
Name of the documents to which it is related (if any):	-		
Name of the electronic file:			
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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)

Sample collection campaign from 15.10.2024 in Moldova Nouă area for sustainability of the RoS-NET2 project: physicochemical parameters

The WUT team continued to collect the samples for the sustainability of the RORS 337 project, and the collection campaign took place on October 15, 2024, in the Moldova Nouă area.

Again, the same samples were collected by the research team, and the physico-chemical parameters were measured *in situ*. For the determination of metals concentration, the samples collected from the Moldova Noua area were sent to the Institute of Mining and Metallurgy in Bor, Serbia.

For the sustainability of the RORS 337 project, our team from Timisoara has collected the samples from surface waters from the Moldova Noua area and analyzed the samples for physicochemical analyses *in situ*. The analyses that have been realized are pH, conductivity, turbidity, and temperature measurements. All the results are illustrated in the following table.



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TABLE 1. Physicochemical parameters of the sample collected from Moldova Noua area in summer campaign – 07.02.2024

Sample ID	Location name of the sample	Physicochemical parameters of the sample						
		pH	Redox potential (mV)	Conductivity (µS/cm)	Turbidity (FNU)	Temperature of sample (°C)	Temperature of air (°C)	Obs
W18	Boşneag River (Moldova Veche)	7,31		970	1,14	16,5	20	sunny day, clear water
W19	Boşneag River (upstream Moldova Veche)	7,6		574		15,2	20	sunny day, clear water
W20	Radimna River (Pojejena)	7,87		392	2,53	17,9	19	sunny day, clear water
W21	Radimna River (upstream Pojejena)	7,04		383	0,74	17,1	19	sunny day, clear water

The results obtained for surface water samples showed that almost all values are within normal limits, without any difference outside the normal limit having been recorded. The well in Coronini village was also sampled and the results for pH, conductivity and turbidity were within normal limits. These results have not been included in the table

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

No.	Parameters	MAC	Unit	W18	W19	W20	W21
1	pH	6.5 - 8.5		7.31 ↔	7.6 ↔	7.87 ↔	7.04↔
2	Conductivty	2500	µS cm-1	970 ↔	574 ↔	392 ↔	383 ↔
4	Turbidity	5	FNU	1.14 ↔		2.53 ↔	0.74 ↔

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



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