



T. C.
ISTANBUL UNIVERSITY
ISTANBUL MEDICAL FACULTY
 Department of Medical Ecology and Hydroclimatology
Balneology Laboratory



Physicochemical Water Analysis Report

12.07.2011

Sample Number		: 32/2011	
Name or owner of the source		: Sample 1 (Source)	
Applicant		: Dr. Aleksandar Jokic	
Establishment sending the sample		: Banja Koviljaca Special Hospital Serbia	
Transport type		: Cargo	
Purpose of the analysis		: Physical, chemical, microbiological and medical assessment	
Responsible laboratory		: Balneology Laboratory	
Sampling date		: 28.06.2011	
Temperature of the material when sampling		: 19°C	
PHYSICAL PROPERTIES			
Odour		: Rotten egg	
Taste		: Tasteless	
Colour		: 0 UNITS PtCo	
Turbidity		: 6,48 NTU TURBIDITY	
Precipitate		: None (24 hours after sampling)	
PHYSICOCHEMICAL PROPERTIES			
pH level		: 6,94	
Conductivity		: 1.388 µS/cm	
Density		: 1,000 g/cm3	
Weather temperature (when sampling)		: 26 °C	
Salinity		: 0/00 0,7	
Carbonate	CO₃⁴⁻	: 0,000 mg/L	
Carbondioxide	CO₂	: 215,6 mg/L	
Hardness		: 46,5 Fr°S	
CATIONS			
		mg/L	mEq/L
Sodium	Na⁺	172,425	7,500
Potassium	K⁺	9,775	0,250
Ammonia (NH4)	NH₄⁺	0,2838	0,016
Magnesium	Mg²⁺	39,504	3,251
Calcium	Ca²⁺	121,142	6,057
Manganese	Mn²⁺	0,049	0,002
Iron	Fe²⁺	0,060	0,002
Total		343,238	17,078
ANIONS			
Fluoride	F⁻	0,830	0,044
Chloride	Cl⁻	126,734	3,575
Bromate	Br⁻	1,050	0,013
Iodide	I⁻	0,242	0,002
Nitrite	NO₂⁻	0,3366	0,007
Nitrate	NO₃⁻	6,600	0,106
Sulfate	SO₄²⁻	18,000	0,375
Bicarbonate	HCO₃⁻	823,500	13,500
Sulphure (Sulphide)	S²⁻	5,070	0,316
Phosphate (Hydrophosphate)	HPO₄²⁻	0,180	0,004
Total		982,542	17,943
UNDISSOLVED SUBSTANCES			
Silicate acid (Metasilicate acid)	H₂SiO₃	32,490	0,416
Boric Acid (Metaboric acid)	HBO₂	15,009	0,343
Total Mineralization		1373,280 mg/L	

Medical Technician Recai KOÇ

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CONFIRMATION

12.07.2011

Prof. Dr. M. Zeki KARAGÜLLE
 Head of the Department

[Signature]

