

**INSTITUTE OF GEOLOGY AND MINERAL EXPLORATION  
LEGAL PERSONALITY OF PRIVATE LAW UNDER  
THE JURISDICTION OF THE MINISTRY OF ENVIRONMENT, ENERGY  
AND CLIMATIC CHANGE (L. 272/76)**

1, SP. LOUIS STR, 3<sup>RD</sup> ENTRANCE TO THE OLYMPIC VILLAGE  
P.C. 13677 ACHARNAI  
TEL. 2131337000, FAX. 2131337015

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**DIRECTION OF ANALYSIS LABORATORIES  
QUALITY CONTROL OF BOTTLED WATER**

1, SP. LOUIS STR, 3<sup>RD</sup> ENTRANCE TO THE OLYMPIC VILLAGE  
P.C. 13677 ACHARNAI  
TEL. 2131337000, FAX. 2131337015

Information: E. Gintoni

Athens, 19/11/2012  
A.P. (IGME) 3015/12-11-2012  
A.P. (DANE) 309/12-11-2012  
A.P. (DANE) 373

**TO: AHB GROUP**

5<sup>th</sup> km of the Karditsa – Athens national road, P.C. 43100, Ag. Theodoros Karditsa  
Information: Mr. D. Tselios  
Tel. 2441062195-8, Fax 2441062132

Sample description <sup>1</sup> : **Water sample bottled in the area of Karditsa in PET bottles of 1, 5 L.**

**Sample condition Normal.**

Sample taking: **AHB GROUP AE**

Collection date: **9/11/2012**

Date of Analysis: 13-19/11/2012

**TESTING REPORT  
(SAMPLE CODE 302/2012)**

Parameter	Unit	Test results	Parametric value*	Original Method
pH (21 °C)	pH units	<b>8.0</b>	> 4.5 and < 9.5	ELOT 658:1983
Conductivity (25	µS/cm	<b>234</b>	2500	ELOT EN

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<sup>1</sup> **According to the Directive 98/83/EK concerning the water quality for human consumption (the values in the parentheses represent the parametric values, and according to the Directive 2003/40/EK for the defining of the borderline values of concentration in natural mineral waters.)**

**\*Description and defining of the identity of the sample according to the interested party of quality testing.**

°C)				27888.1993
Calcium Ca <sup>+2</sup>	Mg/l	<b>44.1</b>		ELOT EN ISO 11885:2009
Magnesium Mg <sup>+2</sup>	Mg/l	<b>0.8</b>		ELOT EN ISO 11885:2009
Sodium Na <sup>+</sup>	Mg/l	<b>1.6</b>	200	ELOT EN ISO 11885:2009
Potassium K <sup>+</sup>	Mg/l	<b>0.2</b>	12	ELOT EN ISO 11885:2009
Carbonates CO <sub>3</sub> <sup>-2</sup>	Mg/l	<b>0.0</b>		ELOT EN ISO 9963-1 : 1996
Acid carbonates HCO <sub>3</sub>	Mg/l	<b>137</b>		ELOT EN ISO 9963-1 : 1996
Chlorides Cl	Mg/l	<b>&lt;5</b>	250	ISO 9297 : 1989
Sulfur SO <sub>4</sub> <sup>-2</sup>	Mg/l	<b>5.0</b>	250	ASTM D516:2007
Nitrates NO <sub>3</sub>	Mg/l	<b>1.2</b>	50 (50)	DIN 38405 D9 1:2008
Nitrous NO <sub>2</sub>	Mg/l	<b>&lt;0.05</b>	0.5 (0.1)	ELOT EN 26777:1993
Ammonium NH <sub>4</sub> <sup>+</sup>	Mg/l	<b>&lt;0.1</b>	0.50	DIN 38406-5:1983
Absolute water hardness	M Mg/l g/l CaCO <sub>3</sub>	<b>113</b>		Calculating method based on ELOT 170.1980
Temporary water hardness	M Mg/l g/l CaCO <sub>3</sub>	<b>112</b>		ELOT EN ISO 9967 1 1996
Permanent water hardness	M Mg/l g/l CaCO <sub>3</sub>	<b>1</b>		Calculating method based on ELOT 170.1980
Silicon SiO <sub>2</sub>	Mg/l			ASTM D5673: 2003
Iron Fe	Mg/l		200	ELOT EN ISO 11885:2009
Manganese Mn	Mg/l		50(500)	ASTM D5673: 2003
Copper Cu	Mg/l		2000 (1000)	ASTM D5673: 2003
Zinc Zn	Mg/l			ASTM D5673: 2003
Lead Pb	Mg/l		10 (10)	ASTM D5673: 2003
Kadmium Cd	Mg/l		5.3 (3.0)	ASTM D5673: 2003
Nickel Ni	Mg/l		20 (20)	ASTM D5673: 2003
Chromium Cr	Mg/l		50 (50)	ELOT EN ISO 11885:2009
Barium Ba	Mg/l		(1000)	ASTDM D5673:2003
Boron B	Mg/l		1000	Internal method based on ASTM d5673: 2003
Aluminum Al	Mg/l		200	ASTM D5673:

				2003
Vanadium V	Mg/l			ASTM D5673: 2003
Beryllium Be	Mg/l			ASTM D5673: 2003
Silver Ar	Mg/l		10	ASTM D5673: 2003
Cobalt Co	Mg/l			ASTM D5673: 2003
Arsenic As	Mg/l		10 (10)	ASTM D5673: 2003
Antimony Sb	Mg/l		5.0 (5.0)	ASTM D5673: 2003
Selenium Se	Mg/l		10 (10)	ASTM D5673: 2003
Quicksilver Hg	Mg/l		1.0 (1.0)	Internal method based on ASTM d5673: 2003
Oxidation (KMnO <sub>4</sub> )	Mg/l O <sub>2</sub>		5.0	ELOT 827:1986
Solid residue (180 °C)	Mg/l		1500	STANDARD METHODS 148a 13 <sup>th</sup> ed.
Solid residue (260 °C)	Mg/l			STANDARD METHODS 148a 13 <sup>th</sup> ed.
Phosphorus P	Mg/l O <sub>2</sub>		5000	Internal method based on ASTM d5673: 2003
Fluorine F	Mg/l		1500 (5000)	ELOT 828:1982
Cyanides CN	Mg/l		50 (70)	ELOT 479: 1983
Bromates Br	Mg/l			ASTM- D 1246: 2005
Bromium BrO <sub>3</sub>	Mg/l		10 (3)	Internal method based on EPA 300 – 1.1999
Total Organic Carbon (TOC)	Mg/l C		No significant change	ISO 145: 1999

**\*According to the Directive 98/83/EK concerning the quality of the water available for human consumption (the values inside the parenthesis are called parametric values, according to the Directive 2003/40/EK, concerning the concentration values of all elements found in natural mineral water sources).**

**I.G.M.E-DIRECTION OF ANALYSIS LABORATORIES  
QUALITY CONTROL OF BOTTLED WATER**

**TESTING REPORT  
(SAMPLE CODE 302/2012)**

Parameter	Unit	Test results	Parametric value*	Original Method
Number of colonies in 22 °C	CFU/ml		100	ISO 6222:1999
Number of colonies in 37 °C	CFU/ml		20	ISO 6222:1999
Total number of coliforms	CFU/250ml		0	ISO 9308-1. 2000
Escherichia coli	CFU/250ml		0	ISO 9308-1. 2000
Pseudomonas aeruginosa	CFU/250ml		0	ELOT EN ISO 16266-2009
Enterococcus	CFU/250ml		0	ISO 7899-2.2000

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**Technical Manager of the Laboratory**

**Stamp & Signature  
Eleni Gintoni  
Chemical Engineer**

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