



Mount Clemens Public Library

Local History Sketches

Chemical Composition of Mount Clemens Mineral Water

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In 1911, Dr. Waldemar T. Lungershausen published a pamphlet on the physical and chemical nature of the Mount Clemens mineral waters. This document included a chemical analysis conducted by John Meyer, a Mount Clemens chemist. Meyer's analysis, as published in that 1911 document, follows.

PHYSICAL CHARACTER	
Temperature	13.61° C, or 56.5° Fahr.
Reaction	Faint Alkaline
Specific Gravity	1.116
CHEMICAL CONSTITUENTS	
	Grains in one U.S. gallon
Hydrogen Sulphide	8.53961
Hydrogen Selenide	0.01047
Hydrogen Telluride	0.01574
Carbonic Acid, free	8.69022
Carbonic Acid, half combined	1.86033
Calcium Carbonate	3.83609
Magnesium Carbonate	0.03557
Ferrous Carbonate	0.34810
Cobaltous Carbonate	0.06530
Calcium Sulphate	91.09819
Calcium Hyposulphite	7.86260
Sodium Sulphite	40.64125
Sodium Selenite	0.31122
Sodium Tellurite	0.33529
Sodium Chloride	5713.65182

Potassium Chloride	463.91670
Lithium Chloride	2.72483
Ammonium Chloride	10.29402
Calcium Chloride	4678.80376
Magnesium Chloride	2406.75932
Magnesium Iodide	0.85266
Magnesium Bromide	71.10401
Strontium Sulphate	0.75916
Sodium Biborate	2.21372
Aluminum Chloride	1.73764
Sodium Silicate	0.85096
Sulphur, in suspension	0.41584
Ferrous Sulphide, in suspension	0.36231
Rubidium	Trace
Cæsium	Trace
TOTAL	13518.09703

For further information about the characteristics of Mount Clemens mineral water, we recommend:

- Lungershausen, Waldemar T. *The Mt. Clemens Mineral Baths: The Physical and Chemical Nature of the Waters, their Physiologic Action, their Therapeutic Effects in the Treatment of Diseased Conditions, and Various Other Information Pertinent to the 'Cure' at Mt. Clemens.* [Mount Clemens, Mich.?] : The Author, 1911.