



Diagnosis of the quality of water consumed by residents of the Lagoa de Cima region

Thaíss do Rosário das Chagas¹, Kariny Alves de Sousa Santos¹, Tatiana Salema Marques Portella², Zélia Maria Peixoto Chrispim³

(1) PROVIC/ISECENSA Volunteer Scientific Initiation Student - Civil Engineering Course; (2) Collaborating Researcher - Research Laboratory in Management and Technologies in Civil Construction - GETECC - Civil Engineering Course; (3) Advisor Researcher - Research Laboratory in Management and Technologies in Civil Construction - GETECC / ISECENSA - Civil Engineering Course - Higher Education Institutes of CENSA - ISECENSA, Rua Salvador Correa, 139, Centro, Campos dos Goytacazes, RJ, Brazil

Water is an indispensable natural resource for the survival of human beings. The need to know its quality is of great relevance, as human activities have significantly degraded water resources recently. In this context, the present study has as main objective to carry out a diagnosis of water quality, considering the potability parameters, in a community located in the Environmental Protection Area Conservation Unit (ACU) of Lagoa de Cima, in the Municipality of Campos dos Goytacazes - RJ. As for the methodology, the following steps will be carried out: collection of bibliographic and documentary data, such as: conference proceedings, books, ordinance, laws, rules, articles, theses, dissertations and others; bibliographic review; registration and georeferencing of collection points; collection of water samples for physical-chemical and bacteriological analyzes, considering Consolidation Ordinance No. 5 established by the Ministry of Health; elaboration of thematic maps, such as: spatialization of the collected samples; modality of water supply and types of uses and preparation of tables. This work is expected to carry out a diagnosis of water quality in that region, through the collection of water samples and physical-chemical and bacteriological analyzes. These results may provide subsidy for future actions by public authorities as well as for the prevention and promotion of that population's health.

Keywords: Water resources. Potability. Prevention.

Fostering Institution: ISECENSA.