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Record 1 of 1

Title: Study on Water Source Protection - Case Study of Lake Buhui - Anina City, Caras - Severin County, Romania

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Edited by: Drusa M; Yilmaz I; Marschalko M; Coisson E; Segalini A

Source: WORLD MULTIDISCIPLINARY CIVIL ENGINEERING-ARCHITECTURE-URBAN PLANNING SYMPOSIUM 2016, WMCAUS 2016 **Book Series:** Procedia Engineering **Volume:** 161 **Pages:** 2203-2208 **DOI:** 10.1016/j.proeng.2016.08.816 **Published:** 2016

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Usage Count (Last 180 days): 2

Usage Count (Since 2013): 2

Cited Reference Count: 9

Abstract: Planning the protection of water sources is a necessity for complying with national legislation in the area of drinking water, namely the Water Law and European legislation - the Water Framework Directive. Adopting a coordinated approach to the protection and sustainable use of water resources, with the cooperation of all stakeholders, it ensures the sustainable use of water resources in long term for people, economy and environment. Buhui Lake is the first artificial lake in Romania, with an area of about 11 hectares, built at an altitude of 640 m for water supplying the Anina city. In the Master Plan Water-Wastewater for Caras-Severin, Buhui Lake will provide the only source of potable water for Anina - Steierdorf agglomerations. It was analyzed the evolution of the indicators for the lake raw water quality depending on the atmospheric regime and the results showed that turbidity and CB05 are influenced by anthropogenic activity, due to controlled and uncontrolled forestry activities in the area. In these circumstances, the elaboration of the water source protection plan of the Lake Buhui is a necessity, because the activities carried out in the sanitary protection zone of water catchment area may have negative impact on the population. The integrated approach for sustainable management of water resources in the catchment area is a good practice of the European Union to be taken in case of water sources in the country. The plans undertaken to protect water sources we can identify shortcomings and problems and we can set the policy actions to address them. (C) 2016 The Authors. Published by Elsevier Ltd.

Accession Number: WOS:000387566500346

Language: English

Document Type: Proceedings Paper

Conference Title: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS)

Conference Date: JUN 13-17, 2016

Conference Location: Prague, CZECH REPUBLIC

Author Keywords: ash and slug landfill; best available techniques; environment impact; environment monitoring

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Publisher: ELSEVIER SCIENCE BV

Publisher Address: SARA BURGERHARTSTRAAT 25, PO.BOX 211 1000 AE AMSTERDAM, NETHERLANDS.

