



10th INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE”

Sustainability Strategies for coastal aquifer analysis: Hermosillo coast

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Abstract

Purpose – The purpose of this paper is to identify the opportunity areas in coastal aquifer research to guide water management actors in their practice, management, education and future research.

Design/methodology/approach – Literature review of papers, methodologies, agency reports, books and website documents was conducted in order to identify practices and strategies worldwide towards a sustainable management of water resources that can lead to a cross-sectional plan.

Findings – Sustainable strategies for coastal aquifers depend on many variables that nowadays are working separately. Therefore, if the business-as-usual strategies are not enough to reach sustainability, decision makers should work together in a holistic way to have accurate information that can serve as an updated scientific basis.

Practical implications – The paper discusses how the coastal aquifers should be managed in order to use its resources in a sustainable manner, so human water needs can be satisfied and the freshwater resources can be preserved.

Originality/value – Even though there is plenty information about coastal aquifers and its management in literature, most of the information discuss specific topics of the entire coastal aquifers management. The originality/value of this paper is the interaction of the sustainability pillars towards future holistic strategies based on the state of art of this topic.

Keywords: climate change, coastal aquifer, marine intrusion, sustainability
