Groundwater Pollution, Aquifer Recharge and Vulnerability

edited by

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The primary groundwater management issue in many countries today is pollution. This may derive from a point source, perhaps a leaking solvent store at a factory, or it may be diffuse, such as the threat posed by the use of agricultural fertilisers and pesticides. The key to understanding the transport of a pollutant from the ground surface or near surface into an aquifer is an understanding of recharge. In turn, this allows the vulnerability of aquifers to pollution to be classified and appropriate land zones to be defined. Land zonation of different classes of aquifer vulnerability is a valuable tool for management and planning.

In this volume the recent developments within the interlinked areas of groundwater pollution, aquifer recharge and vulnerability are highlighted. The book provides an up-to-date description of the relationship between pollution, recharge and vulnerability set against the current groundwater protection policies of the UK and Republic of Ireland. It also provides keynote overviews for each topic.

This Special Publication will be of interest to academic and consulting hydrogeologists and environmental scientists.

...addresses many of the critical issues and problems faced in the effort to protect groundwater supplies. The book's chapters are written by independent authors who address the diverse problems and challenges faced by the modern hydrogeologist, water resource planer, and environmental engineer. Topics range from describing and defining aquifer vulnerability and aquifer characterization to addressing the difficult issue that all groundwater may not be worth protecting. The book is well written and scientifically astute.

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- index

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