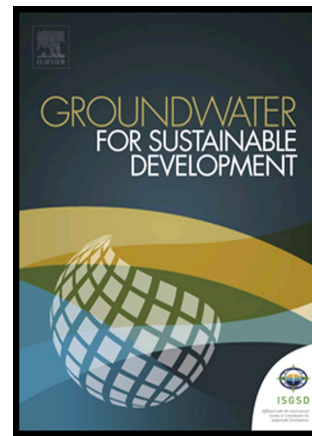


Author's Accepted Manuscript

A conceptual model based framework for pragmatic groundwater-quality monitoring network design in the developing world: Application to the Chikwawa District, Malawi

Michael O. Rivett, Alexandra V.M. Miller, Donald John MacAllister, Andrew Fallas, Gift J. Wanangwa, Prince Mleta, Peaches Phiri, Nicholas Mannix, Maurice Monjerezi, Robert M. Kalin



www.elsevier.com/locate/gsd

PII: S2352-801X(17)30046-2
DOI: <https://doi.org/10.1016/j.gsd.2018.01.005>
Reference: GSD101

To appear in: *Groundwater for Sustainable Development*

Received date: 12 May 2017
Revised date: 10 January 2018
Accepted date: 10 January 2018

Cite this article as: Michael O. Rivett, Alexandra V.M. Miller, Donald John MacAllister, Andrew Fallas, Gift J. Wanangwa, Prince Mleta, Peaches Phiri, Nicholas Mannix, Maurice Monjerezi and Robert M. Kalin, A conceptual model based framework for pragmatic groundwater-quality monitoring network design in the developing world: Application to the Chikwawa District, Malawi, *Groundwater for Sustainable Development*, <https://doi.org/10.1016/j.gsd.2018.01.005>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**A conceptual model based framework for pragmatic groundwater-quality monitoring network design in the developing world:
Application to the Chikwawa District, Malawi**

Michael O. Rivett^{1,2*}, Alexandra V.M. Miller¹, Donald John MacAllister^{1,3},
Andrew Fallas¹, Gift J. Wanangwa⁴, Prince Mleta⁵, Peaches Phiri⁵, Nicholas
Mannix¹, Maurice Monjerezi⁶, Robert M. Kalin¹

¹Department of Civil and Environmental Engineering, University of Strathclyde, Glasgow, G1 1XJ, UK

²GroundH₂O plus Ltd, Quinton, Birmingham, B32, 1DY, UK

³Now at: British Geological Survey, The Lyell Centre, Research Avenue South, Edinburgh, EH14 4AP, UK

⁴Ministry of Agriculture, Irrigation and Water Development, Regional Irrigation and Water Development Office – South, Private Bag 13, Blantyre, Malawi

⁵Ministry of Agriculture, Irrigation and Water Development, Tikwere House, Liliongwe, Malawi

⁶Department of Chemistry, University of Malawi, Chancellor College, P.O Box 280, Zomba, Malawi

*Corresponding author: Michael.Rivett@strath.ac.uk

Abstract

Significant need exists in the developing world to transition from occasional groundwater-quality surveys to routinely sampled groundwater-quality network monitoring programmes that provide better safeguard of resources. Networks contribute to the sustainable management of water resources, are integral to Water Safety Plans, and underpin delivery of Sustainable Development Goal 6. A framework for groundwater-quality monitoring

Download English Version:

<https://daneshyari.com/en/article/8870586>

Download Persian Version:

<https://daneshyari.com/article/8870586>

[Daneshyari.com](https://daneshyari.com)