

Case studies

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We are gradually adding more case studies and more resources on some of the issues dealt with in the studies. Please get in touch with us on AfricaGWAtlas@bgs.ac.uk if there are any particular issues you would like to see the Atlas deal with, or if you have any suggestions for additional case studies.

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Overview of Africa Groundwater Case Studies

The case studies below provide practical examples of groundwater-related issues and how they have been addressed in countries across Africa. They cover issues at different scales, in different climates, and with varying natural and political environments. They provide practical examples of how groundwater is developed, used and managed in countries across Africa, with links to more detailed information for those who want to explore further.

These case studies cover issues as diverse as: groundwater monitoring at community level; self-supply and family wells; groundwater management strategies at national and transboundary scales; professionalising and capacity building in the drilling sector; groundwater use for small scale irrigation; water payment behaviour; reasons for water borehole failure and strategies to improve

the quality, operation and sustainability of groundwater wells and handpumps; and how different activities such as mining or land use change can impact groundwater quantity and quality.

Do you have an example that could be added here? If you have suggestions for other case studies, please let us know on AfricaGwAtlas@bgs.ac.uk

List of all Case Studies

- [Groundwater irrigation in northeast Ghana](#)
- [Acid mine drainage in South Africa](#)
- [Water point payment behaviour in Kwale, Kenya](#)
- [Land cover changes and impacts on groundwater in southwest Niger](#)
- [Reasons for water borehole failure in northeast Uganda](#)
- [Community groundwater monitoring in Burkina Faso](#)
- [Use and perceptions of groundwater in an urban area - Lagos, Nigeria](#)
- [Capacity building in the manual drilling sector in Chad](#)
- [The Souss aquifer contract in Morocco \(from GRIPP\)](#)
- [Mozambique Drillers Association](#)
- [Zimbabwe Programme for Family Well Upgrading](#)
- [Groundwater Dams - examples from Ethiopia and Kenya](#)
- [Insurance-style handpump maintenance payments in Kenya](#)
- [Transboundary Management of the North West Aquifer System \(SASS\)](#)
- [Handpump Standardisation](#)
- [An example of groundwater management from South Africa](#)
- [Drilling an unsuccessful borehole: lessons learnt from South Sudan](#)
- [Groundwater quality in Lusaka, Zambia](#)

To help you find relevant case studies, they are also listed below by theme and by region in Africa:

Case Studies by Theme

Groundwater Management

- [Community groundwater monitoring in Burkina Faso](#)
- [Capacity building in the manual drilling sector in Chad](#)
- [The Souss aquifer contract in Morocco \(from GRIPP\)](#)
- [Mozambique Drillers Association](#)
- [Transboundary Management of the North West Aquifer System \(SASS\)](#)
- [An example of groundwater management from South Africa](#)

Groundwater Use: Water Supply and Irrigation

- [Groundwater irrigation in northeast Ghana](#)
- [Water point payment behaviour in Kwale, Kenya](#)
- [Reasons for water borehole failure in northeast Uganda](#)
- [Use and perceptions of groundwater in an urban area - Lagos, Nigeria](#)
- [Zimbabwe Programme for Family Well Upgrading](#)

- [Groundwater Dams - examples from Ethiopia and Kenya](#)
- [Insurance-style handpump maintenance payments in Kenya](#)
- [Handpump Standardisation](#)
- [Drilling an unsuccessful borehole: lessons learnt from South Sudan](#)

Groundwater and Environmental Change

- [Land cover changes and impacts on groundwater in southwest Niger](#)

Groundwater Pollution

- [Acid mine drainage in South Africa](#)
- [Groundwater quality in Lusaka, Zambia](#)

Case Studies by Region

Africa Wide

- [Handpump Standardisation](#)

North Africa

- [The Souss aquifer contract in Morocco \(from GRIPP\)](#)
- [Transboundary Management of the North West Aquifer System \(SASS\)](#)

West Africa

- [Community groundwater monitoring in Burkina Faso](#)
- [Groundwater irrigation in northeast Ghana](#)
- [Use and perceptions of groundwater in an urban area - Lagos, Nigeria](#)
- [Land cover changes and impacts on groundwater in southwest Niger](#)

Central Africa

- [Capacity building in the manual drilling sector in Chad](#)

East Africa

- [Water point payment behaviour in Kwale, Kenya](#)
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Southern Africa

- [Mozambique Drillers Association](#)
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- [Acid mine drainage in South Africa](#)
- [Groundwater quality in Lusaka, Zambia](#)



Carrying out a pumping test on a failed borehole in Uganda. Image credit: [Bonsor et al. 2013](#)



Community members interpreting groundwater level and rainfall data in Burkina Faso. Image credit: Richard Carter / [WaterAid \(2013\)](#)

More resources

GRIPP

The **Groundwater Solutions Initiative for Policy and Practice** network ([GRIPP](#)) produce a series of detailed [Case Profiles](#) on groundwater issues around the world, including Africa.

Case Profiles so far in the GRIPP series include:

- [\[Aquifer Contracts: A means to solving groundwater over-exploitation in Morocco?\]](#)
- [\[Controlling groundwater through smart card machines: the case of water quotas and pricing\]](#)

[mechanisms in Gansu Province, China\]](#)

- [[The North West Dolomite Aquifers, South Africa: A Stalled Opportunity for Water Security and Development\]](#)



Cover of [GRIPP Case Profile Series 01 - Aquifer Contracts: A means to solving groundwater over-exploitation in Morocco?](#)

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