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December 2017

In print and online

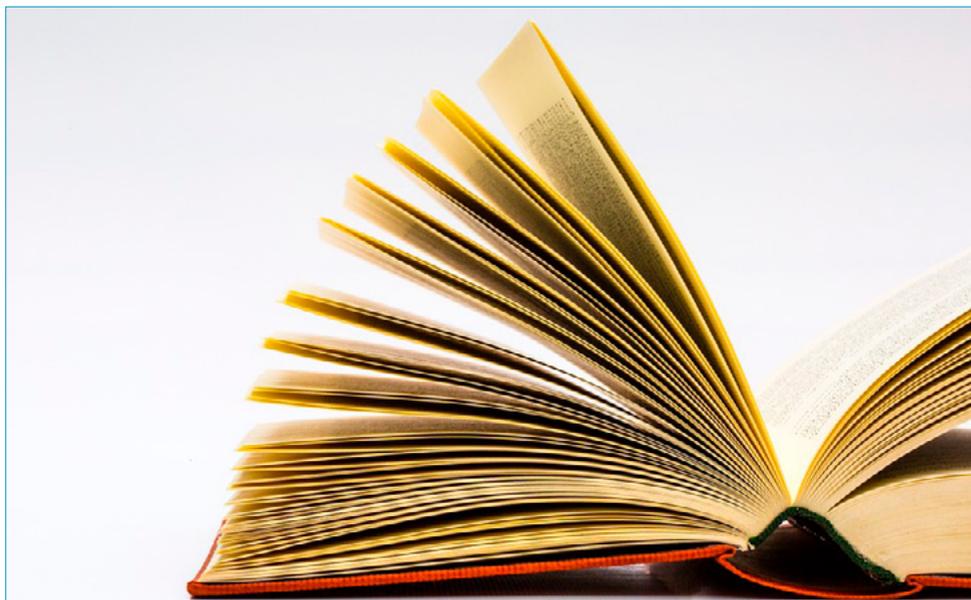
WEDC specialist resources are related to many aspects of infrastructure and services in low- and middle-income countries, in particular water and sanitation.

Our knowledge in water and sanitation has developed over 45 years. We have documented evidence-based answers to important questions, not only on what needs to be done to ensure the sustainability of infrastructure and services, but also how to go about it. Our resources include journal papers, books, manuals, case study reports, fact sheets, technical notes and briefing reports, conference papers and more, published using both conventional and new media.

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Controlling and Preventing Disease

The role of water and environmental sanitation interventions

Erik Rottier and Margaret Ince

Improving health is one of the main goals of water and environmental sanitation (WES) interventions. Despite this, many aid and development workers may have only a limited knowledge of the infections they try to prevent. Although the relevant information does exist, it is often scattered in specialised literature and rarely finds its way into the field. This manual addresses this problem by presenting information on these infections in relation to the interventions that fieldworkers typically control – i.e. water supply, sanitation, drainage, solid waste management, and vector control. It has been produced primarily for non-medical aid and development workers, but anyone working in WES, or in the prevention of infections related to WES, will find this book useful.

292pp. (250/176) **2003** **Availability:** in print / [online](#)
Price: £29.95 **ISBN:** 978 0 906055 90 8

Emergency Publications on CD

Edited by Bob Reed

This pc compact disk comprises the electronic (pdf) files of the entire series of 'emergency' publications produced by WEDC to date. This is an invaluable and handy resource for all aid and development workers.

Controlling and Preventing Disease

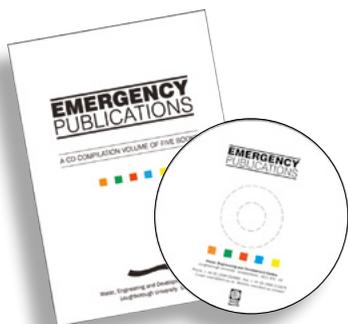
Emergency Sanitation

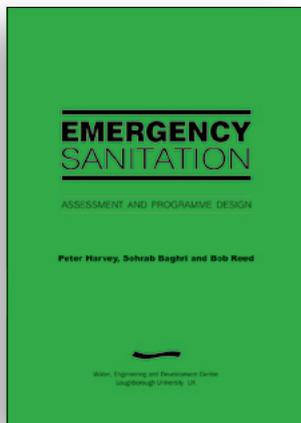
Emergency Vector Control

Emergency Water Sources

Out in the Cold

Size: 190/135 **2004** **Availability:** CD
Price: £19.95 **ISBN:** 978 1 84380 070 5





Emergency Sanitation

Assessment and programme design

Peter Harvey, Sohrab Baghri and Bob Reed

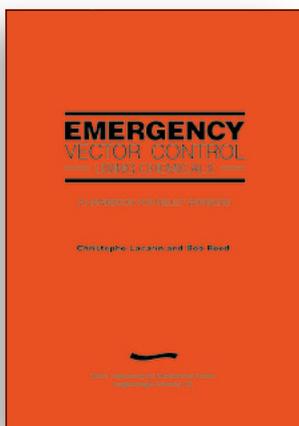
This book is designed to assist those involved in planning and implementing emergency sanitation programmes. The main focus of the book is a systematic and structured approach to assessment and programme design. It provides a balance between the hardware (technical) and software (socio-cultural, institutional) aspects of sanitation programmes, and links short-term emergency response to long-term sustainability. The book is relevant to a wide range of emergency situations, including both natural and conflict-induced disasters, and open and closed settings. It is suitable for field technicians, engineers and hygiene promoters, as well as staff at agency headquarters.

384pp. (250/176)

2002 Availability: in print / [online](#)

Price: £29.95

ISBN: 978 1 84380 005 7



Emergency Vector Control Using Chemicals

Christophe Lacarin and Bob Reed

The control of vectors that transmit diseases in emergencies is critical to the prevention of epidemics. This handbook describes how such vectors can be identified and controlled using chemicals. Aimed at non-specialists such as logisticians, engineers and health workers, it provides advice on identifying the responsible vector, selecting the appropriate control chemical and the means of application, together with advice on planning an implementation programme.

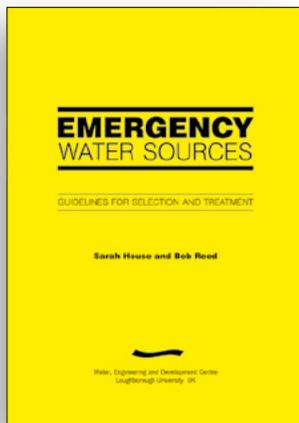
134pp. (250/176)

2004 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 068 2

(Second edition)



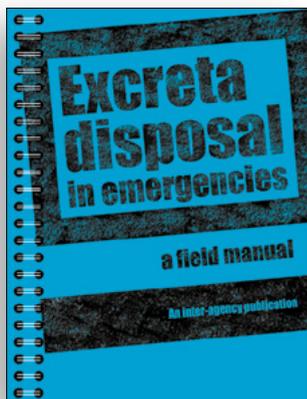
Emergency Water Sources

Guidelines for selection and treatment

Sarah House and Bob Reed

These guidelines have been designed to help those involved in the assessment of emergency water sources to collect relevant information in a systematic way, to use this information to select a source or sources and to determine the appropriate level of treatment required to make the water suitable for drinking. The book is relevant to a wide range of emergency situations, including both natural and conflict-induced disasters.

320pp. (250/176) **2004** **Availability:** in print / [online](#)
Price: £24.95 **ISBN:** 978 1 84380 069 9
(Third edition)



Excreta Disposal in Emergencies

A field manual

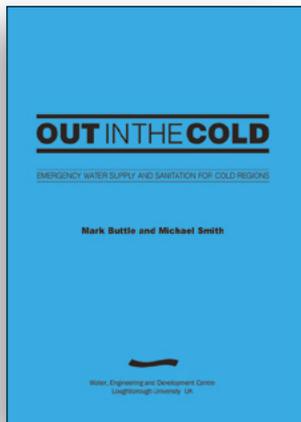
Peter Harvey

It is generally accepted that excreta disposal is given less priority in emergencies than other humanitarian interventions such as health care, food and water supply. This is despite the fact that many of the most common diseases occurring in emergency situations are caused by inadequate sanitation facilities and poor hygiene practice. Many aid agencies are aware of these facts and wish to give a greater emphasis to excreta disposal. In the past, however, they have often been hampered by a lack of experience and resources to support their field staff.

The purpose of this manual is to provide practical guidance on how to select, design, construct and maintain appropriate excreta disposal systems in emergency situations. Relevant situations include natural disasters, relief for refugees and internally displaced people, and complex emergencies, focusing on rural and peri-urban areas.

250pp. (210/165) **2007** **Availability:** in print / [online](#)
Price: £24.95 **ISBN:** 978 1 84380 113 9

EMERGENCY WATER, SANITATION AND HYGIENE



Out in the Cold

Emergency water supply and sanitation for cold regions

Mark Buttle and Michael Smith

During the 1990s, events in the Balkans, countries of the former Soviet Union, Afghanistan and Northern Iraq have demonstrated that humanitarian disasters are not confined to 'the South' but may strike anywhere in the world. As a result, relief agencies have been tested in ways previously unimaginable. Aid workers have to be ever more adaptable in order to provide life-saving water supply and sanitation facilities in areas where freezing conditions occur.

This revised handbook is designed for aid workers working in cool temperate or cold regions. It is designed to provide specific supplementary information that can be used together with the information given in more general emergency manuals.

120pp. (250/176) **2002** **Availability:** in print / [online](#)

Price: £19.95 **ISBN:** 978 1 84380 077 4

(Third edition)

EQUITY AND INCLUSION



Developing Engineers and Technicians

Notes on giving guidance to engineers and technicians on how infrastructure can meet the needs of men and women

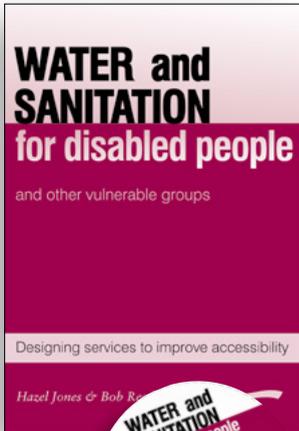
Brian Reed and Sue Coates

These notes are designed to support the training of engineers and technicians in developing an awareness of gender issues.

They have been designed for people who would normally either manage engineering projects, run engineering courses or chair engineering meetings. They are not a standard 'gender' training pack. The person leading the units should have an understanding of the participants' background, priorities and concerns.

124pp (297/210) **2007** **Availability:** in print / [online](#)

Price: £24.95 **ISBN:** 978 1 84380 110 8



Water and Sanitation for Disabled People and Other Vulnerable Groups

Designing services to improve accessibility

Hazel Jones and Bob Reed

Over 500 million people in the world are disabled, the majority of whom live in poverty in low-income communities. A major contributing factor to the poverty of disabled people and other vulnerable groups is their lack of access to sanitation and safe water. Based on three years of international research and collaboration with water and sanitation and disability sector organizations, this book fills a significant gap in knowledge, and should be of great interest to water and sanitation sector planners; water and sanitation service providers; organizations providing disability services; and disabled people's organizations.

324pp. (297/210) **2005** **Availability:** in print / [online](#)
Book price: £32.95 **ISBN:** 978 1 84380 079 8

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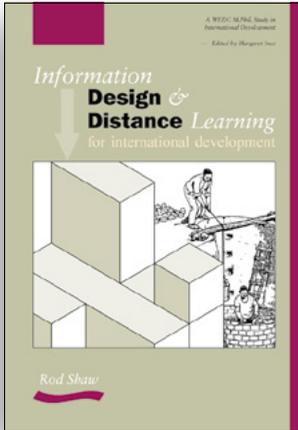


L'alimentation en Eau et les Installations Sanitaires pour les Personnes Handicapées et Autres Groupes Vulnérables

La conception des services permettant d'améliorer l'accessibilité

326pp. (297/210) **2006** **Availability:** in print / [online](#)
Price: £32.95 **ISBN:** 978 1 84380 101 6

CD Edition in French: £19.95 **ISBN:** 978 1 84380 124 5
 Including additional materials and image library in English



Information Design and Distance Learning for International Development

Rod Shaw

This book presents an investigation by research into the ways in which distance learning is affected by the physical design of printed study materials. In particular, it examines the use of engineering drawing systems for illustrated, instructional texts concerned with technical aspects of infrastructure development.

208pp. (297/210)
Price: £19.95

2001 Availability: in print / [online](#)
ISBN: 978 0 906055 92 2



Research Management

A training course on research management activities and processes

Frank Odhiambo and Peter Furu

Research management is the knowledge and principles that are essential for the head of a research project and the researchers on the project to effectively manage a research project. This course assumes that research projects are made up of consortia of partners implementing the projects. It highlights good research management practice especially that which is necessary to manage effectively EU-funded development research. Funding applications for EU development research have to conform to certain criteria. Further, the calls for research published by the EC often take a view about the type of research that is likely to deliver answers to the call's broad question.

128pp. (297/210)
Price: £19.95

2012 Availability: in print / [online](#)
ISBN: 978 0 84380 148 1

Includes a CD Edition with additional resources

Spreading the Word Further *Guidelines for Disseminating Development Research*

Julie Fisher, Frank Odhiambo and Andrew Cotton

Getting research findings out to those who stand to benefit from them is now widely recognised as a crucial aspect of any research project. This book is a product of the second phase of a DFID-funded KaR project that is aimed at increasing the impact of research through improved dissemination of the research process and findings. It develops the ideas from phase one of the project 'Spreading the Word: Practical guidelines for research dissemination strategies' (Saywell and Cotton, 1999).

58pp. (210/148)

Price: £9.95

2003 Availability: in print / [online](#)

ISBN: 978 1 84380 047 7

Spreading the Word Further - Synthesis Note

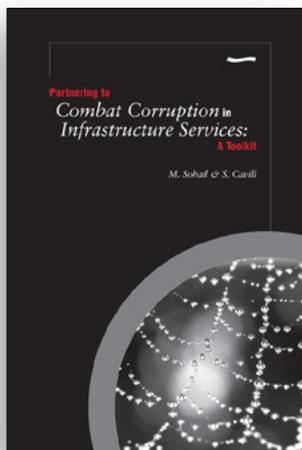
8pp. (297/210)

Price: £5.95

2003 Availability: in print / [online](#)

ISBN: 978 1 84380 049 1





Partnering to Combat Corruption in Infrastructure Services – A Toolkit

Series Editor M. Sohail, Assistant Editor S. Cavill

This Toolkit has been produced as part of a series of outputs from a research project entitled *Accountability Arrangements to Combat Corruption* (initially funded by the Department for International Development (DFID), UK).

228pp (129/198) **2007** **Availability:** in print / [online](#)
Price: £19.95 **ISBN:** 978 1 84380 125 2

A Literature Review

S Cavill and M Sohail

This review describes accountability arrangements to combat corruption in the infrastructure sector.

76pp (297/210) **2007** **Availability:** in print / [online](#)
Price: £14.95 **ISBN:** 978 1 84380 112 2

Methodological note

S. Cavill and M. Sohail

This document presents a combination of qualitative and quantitative research techniques to analyze corruption in the infrastructure sector. The methodology was piloted in South Africa, Nigeria, Pakistan, Bangladesh, Indonesia, Georgia, Ukraine and Nepal in 2005-2006.

18pp (297/210) **2007** **Availability:** in print / [online](#)
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Synthesis Note and Case Surveys

Compiled by M. Sohail and S.Cavill

Desk-based descriptions of 27 anti-corruption initiatives have been conducted. These surveys describe particular accountability mechanisms/activities that aim to combat corruption in infrastructure services and improve the effectiveness and efficiency of such services, but also encourage pro-poor service delivery.

142pp (297/210) **2007** **Availability:** in print / [online](#)
Price: £24.95 **ISBN:** 978 1 84380 121 4



Country case studies

These studies document first-hand experience of investigating and resolving corruption-related problems.

Accountability Arrangements to Combat Corruption in the Delivery of Infrastructure Services in Bangladesh

IDPAA at PROSHIKA

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Ihor Kyrilchuk

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Maryam Sekhniashvili and Tamara Sulukia

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Glenn Hollands

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Purusottam Man Shrestha

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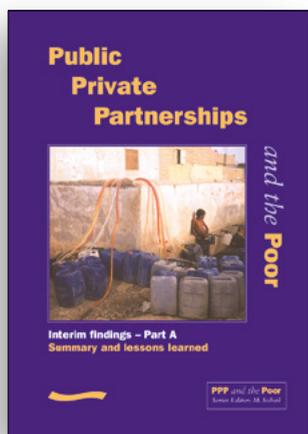
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Danang Widoyoko

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PPP and the Poor Series

Series Editor: M. Sohail

The purpose of the DFID-funded project *Public Private Partnerships and the Poor in Water and Sanitation* is to determine workable processes whereby the needs of the poor are promoted in strategies which encourage public-private partnerships (PPP) in the provision of water supply and sanitation services. One of the key objectives is to fill some of the gaps which exist in evidence-based reporting of the facts and issues around the impacts of PPP on poor consumers.

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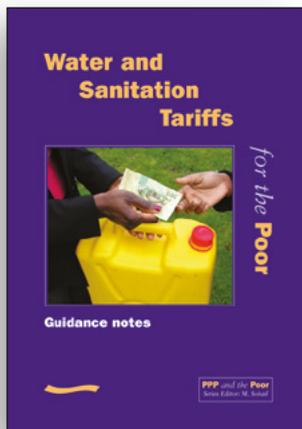
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M. Sohail

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Water and Sanitation Tariffs for the Poor

Guidance notes

M. Sohail

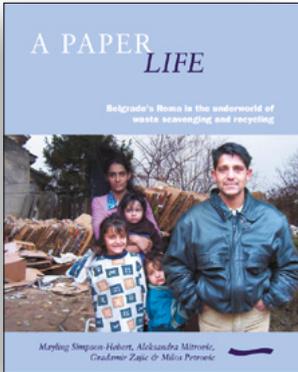
Design of water and sanitation tariffs is a key issue in provision of services to the poor. This book is concerned with issues relating to the design of pro-poor water and sanitation tariffs.

68pp. (210/148)

2004 Availability: in print / [online](#)

Price: £12.95

ISBN: 978 1 84380 060 6



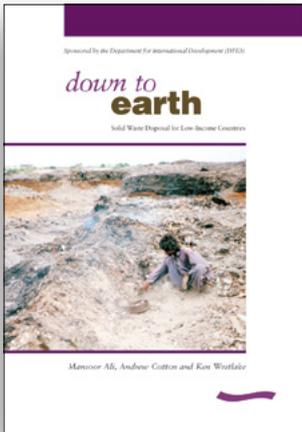
A Paper Life

Belgrade's Roma in the underworld of waste scavenging and recycling

Mayling Simpson-Hebert, Aleksandra Mitrovic,
Gradimir Zajic and Milos Petrovic

About 12,000 people in the city of Belgrade, Serbia scavenge solid wastes for a living. *A Paper Life* is based on interviews with over 200 scavengers – mainly Roma – and reveals in their own words their everyday lives, the types of wastes they collect, the dangers they are exposed to, the harassments they endure, as well as their desires for a cleaner and more orderly way of life. This moving account is a wake-up call to city planners everywhere to remember those who make their living on the margins of society. The book will also be of great interest to anthropologists; sociologists; social workers; solid waste specialists; Roma scholars and activists; as well as university students of these subjects.

88pp. (260/210) **2005 Availability:** [online](#)
ISBN: 978 1 84380 088 0



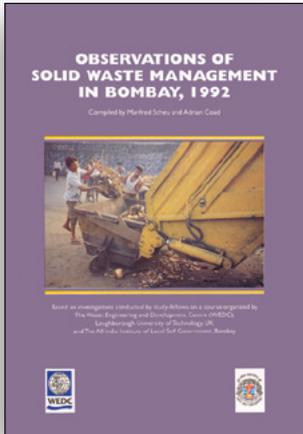
Down to Earth

Solid waste disposal for low-income countries

Mansoor Ali, Andrew Cotton and Ken Westlake

Designed for policymakers and professional staff of urban government, development agencies and non-governmental organizations in low-income countries, this book aims to help improve the poor practices of municipal solid waste management that prevail in many low-income countries – a subject that has received comparatively little attention to other aspects of infrastructure such as water supply and transport. It is a complex subject embracing waste collection, transfer, haulage and disposal and its impacts are wide, including for example, effects on environmental health, municipal finance and management, waste reuse, and informal sector employment.

124pp. (250/176) **1999 Availability:** in print / [online](#)
Price: £19.95 **ISBN:** 978 0 906055 66 3



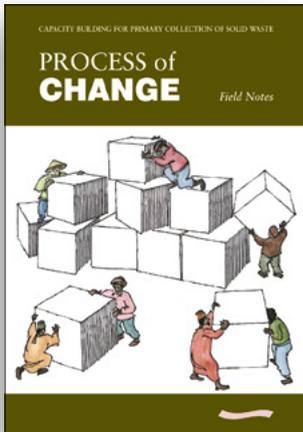
Observations of Solid Waste Management in Bombay

Compiled by Manfred Scheu and Adrian Coad

This book is based on information collected by engineers during a training programme in India. It gives a unique insight into actual day-to-day operations in one of India's largest cities, and demonstrates how this data can be analysed. Subjects include the administrative and legal background, the operations of the street sweepers, attitudes of slum dwellers, operation of data on vehicle operations, and the status of recycling and disposal operations.

146pp. (297/210)
Price: £14.95

1994 **Availability:** [online](#)
ISBN: 978 0 906055 40 3



Process of Change: Field Notes

Capacity building in primary collection of solid waste

Mansoor Ali and Andrew Cotton

These field notes present the findings of focused research into the actual processes of change in low-income countries carried out as a part of the DFID Knowledge and Research Programme. This project aims to build capacities of government and non-governmental organizations in the primary collection of solid waste. The field notes are written for organizations and individuals who, in one way or another, support the development of solid waste systems in low-income countries.

54pp. (250/176)
Price: £9.95

2000 **Availability:** in print / [online](#)
ISBN: 978 0 906055 69 4



Solid Waste Management

A collection of synthesis notes

Series Editor: Mansoor Ali

This set of six synthesis notes on solid waste management is an essential guide to some of the most important issues facing the solid waste sector today. They are:

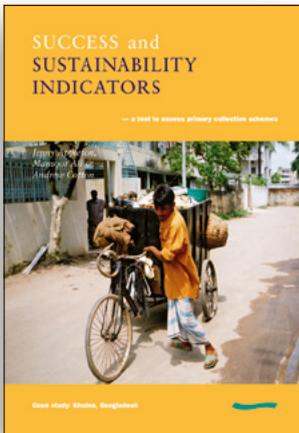
1. The role of micro-enterprise in solid waste
2. Vehicles for primary collection of solid waste
3. The role of community-based organisations (CBOs) in solid waste management
4. Recognising livelihoods from urban waste
5. Recognising gender issues in the management of urban waste
6. Success and sustainability indicators for primary collection of solid waste

28pp. (297/210)

2005 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 080 4



Success and Sustainability Indicators

A tool to assess primary collection schemes

Jenny Appleton, Mansoor Ali and Andrew Cotton

A list of success and sustainability indicators for primary solid waste collection systems was prepared by the project team as part of the DFID Knowledge and Research research project, *Capacity Building for Primary Collection of Solid Waste*. The indicators were prepared to help fieldworkers undertake impact assessments of primary solid waste collection schemes. This booklet presents the indicators, how they may be used and the results of the field tests.

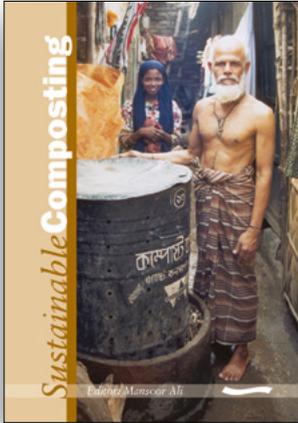
Prepared by WEDC in association with the Water and Sanitation Group, Bangladesh.

44pp. (260/210)

2000 Availability: in print / [online](#)

Price: £14.95

ISBN: 978 0 906055 73 1



Sustainable Composting

Mansoor Ali and Jonathan Rouse

Composting is a process of converting organic waste into humus. Humus is inert, so it can be used as a soil conditioner or as landfill cover. In low-income countries, inorganic waste such as metals and glass is often recycled by the informal sector, while non-governmental organizations and the private sector take a lead in recycling organic waste through composting. Nevertheless, organic waste and other value-less waste remains a major problem.

This book presents the findings from the DFID-funded research project *Promoting Compost as a Business for the Urban Poor* in the form of guidelines developed from case studies. The guidelines are helpful for planning and managing compost projects for creating sustainable employment for urban poor.

134pp. (250/176)

2004 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 071 2

Sustainable Composting (CD edition)

Mansoor Ali and Jonathan Rouse

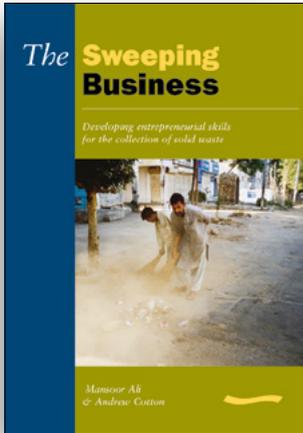
Size: 190/136

2005

Price: £19.95

ISBN: 978 1 84380 076 7





The Sweeping Business

Developing entrepreneurial skills for the collection of solid waste

Mansoor Ali and Andrew Cotton

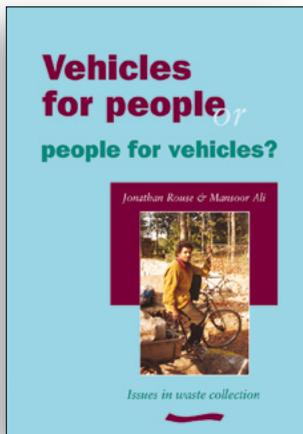
This book presents the findings of a DFID-funded project. It has been written for practitioners, municipal staff, non-government organizations and students interested in promoting micro-enterprises for the collection of solid waste. The project has identified guidelines based on a thorough understanding of the existing processes. More than twenty cases were studied in four cities in Bangladesh, Pakistan and Sri Lanka. The roles and responsibilities of the different stakeholders have been investigated, some of which (including sweepers) have not been considered in the past.

134pp. (250/176)

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Vehicles for People or People for Vehicles?

Issues in solid waste collection in low-income countries

Jonathan Rouse and Mansoor Ali

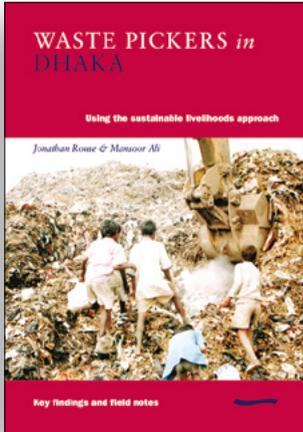
The livelihoods of many thousands of poor people in low-income countries rely on collecting and recycling solid waste. Small waste collection vehicles (SWCVs) such as wheel-barrows and cycle carts play a vital role, enabling individuals to transport more waste, faster, further and with greater ease and safety. However, many are inappropriately designed, giving rise to difficulty, danger and expense to users. This book examines SWCVs from social, technical and institutional angles, focusing on users but acknowledging the important linkages between different issues. It also considers the process of user consultation in vehicle design. Fieldwork undertaken in five countries combines with literature to provide extensive illustrated case-study material.

92pp. (250/176)

2002 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 012 5



Waste Pickers in Dhaka

Using the sustainable livelihoods approach

Jonathan Rouse and Mansoor Ali

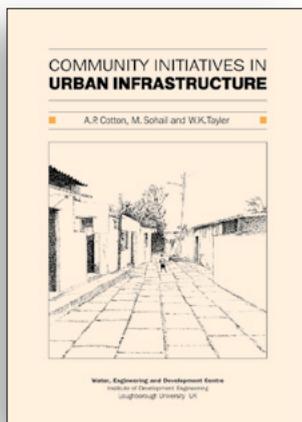
Waste pickers in Dhaka make their living by selling recyclable items collected from dumped waste. Most are children living on the streets or in slums where they have little access to infrastructure, a low status in society and an uncertain future. This book is based on a period of fieldwork in Dhaka which explored their livelihoods using the DFID Sustainable Livelihoods Approach (SLA). It presents much of the livelihood information gathered, and discusses the effectiveness of the SLA in this urban context. The book also raises a number of methodological issues relating to research with mostly illiterate, underprivileged children.

92pp. (260/210)

2001 **Availability:** in print / [online](#)

Price: £19.95

ISBN: 978 0 906055 84 7



Community Initiatives in Urban Infrastructure

A. P. Cotton, M. Sohail and W. K. Tayler

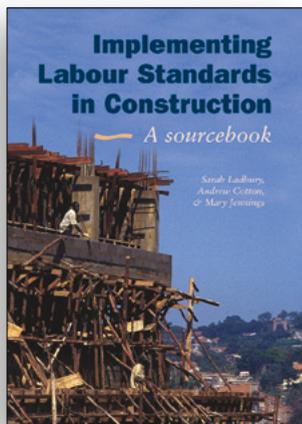
This manual investigates the extent and nature of the involvement of low-income urban communities in the provision of their local infrastructure. It also provides guidance for policy-makers and professional staff of urban government, development agencies, non-government organisations, and small to medium enterprises for promoting increased involvement of communities in the procurement of neighbourhood (tertiary level) infrastructure. Case studies are examined.

96pp. (210/148)

Price: £9.95

1998 Availability: in print / [online](#)

ISBN: 978 0 906055 56 4



Implementing Labour Standards in Construction *A sourcebook*

Sarah Ladbury, Andrew Cotton and Mary Jennings

This sourcebook provides guidance on the collaborative process and contractual issues involved in implementing labour standards. It is based on experience gained from implementing labour standards in infrastructure construction projects in Ghana, India and Zambia. Three different contexts for construction are considered: formal or conventional contracting; community contracting; and self-help schemes using unpaid labour.

120pp. (250/176)

Price: £24.95

2003 Availability: in print / [online](#)

ISBN: 978 1 84380 017 0



Implementing Labour Standards in Construction *Briefing and Guidance Notes*

Based on a review of international literature, together with lessons learned from pilot studies carried out in Ghana, India and Zambia. Complementing the sourcebook of the same name, the Notes offer concise guidance on how to incorporate international and national labour standards into procurement contracts and procedures, in a way that enables the standards to be effectively applied and monitored. These Notes will be particularly useful for anyone involved in infrastructure procurement, construction management, contract supervision, social protection and labour rights. The folder includes:

- Briefing Note - Lessons from Pilot Studies*
- Guidance Note 1 - The International Context and National Implications*
- Guidance Note 2 - Making Labour Standards Operational*
- Guidance Note 3 - Including Labour Standards in the Contract*

32pp. (305/215)
Price: £12.95

2003 Availability: in print / [online](#)
ISBN: 978 1 84380 092 7



Infrastructure for All

Meeting the needs of both men and women in development projects – A practical guide for engineers, technicians and project managers

This book has been produced to help engineers, technicians and project managers ensure that the facilities they design and build are beneficial to all members of society. Using many examples, especially examples related to water and sanitation, the book demonstrates that 'one size does not fit all'. It shows how women, men and children frequently have different needs and different priorities because they use infrastructure in different ways. The book makes gender analysis intelligible to engineers working at the project level to enable them to cooperate with social scientists, and to increase their awareness of the need to work with women and men in the user community.

227pp (250/176)
Price: £24.95

2007 Availability: in print / [online](#)
ISBN: 978 1 84380 109 2



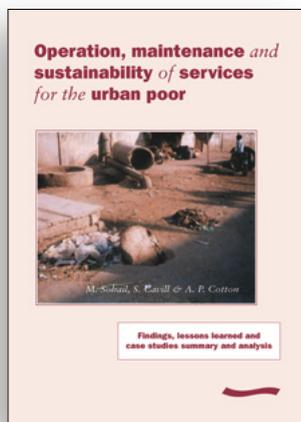
Operation and Maintenance of Urban Services *Synthesis Note*

M. Sohail

This synthesis note introduces other resource material available on the operation and maintenance (O&M) of urban services. Designed for policy-makers who need to optimize investments in services for the urban poor, and professional staff employed in public utilities in developing countries, it also summarizes the key issues and recent research findings; presents an overview of O&M and the difficult questions which still remain; and examines some of the requirements for success.

12pp. (297/210)
Price: £5.95

2002 Availability: in print / [online](#)
ISBN: 978 1 84380 015 6



Operation, Maintenance and Sustainability of Services for the Urban Poor

Findings, lessons learned and case studies summary and analysis

M. Sohail, S. Cavill and A. P. Cotton

This book presents the findings of case studies completed to date in Pakistan, Sri Lanka and India on the operation, maintenance and sustainability of services for the urban poor. It provides an assessment of the operation and maintenance status within the communities illustrated in the studies and highlights the success and failure of the different approaches. It goes on to review both consumer (urban poor) perceptions and municipal performance of operation and maintenance, and includes an assessment of the sustainability of community-based processes. Conclusions and lessons have been drawn out that will be useful when thinking about operation and maintenance in the planning and implementation of future projects.

222pp. (250/176)
Price: £24.95

2001 Availability: in print / [online](#)
ISBN: 978 0 906055 95 4



Partnerships to Improve Access and Quality of Public Transport

Guidelines and compilation CD

This book presents findings from the DFID-funded project *Partnerships to Improve Access and Quality of Urban Public Transport for the Urban Poor*. The purpose of the project was to identify, explore, and document critical issues in the provision of transport services for and in low-income settlements in developing countries. The identified issues can be used at policy and operational levels to provide better transport services to low-income communities in urban areas. In the research methodology, a sustainable livelihoods framework was used.

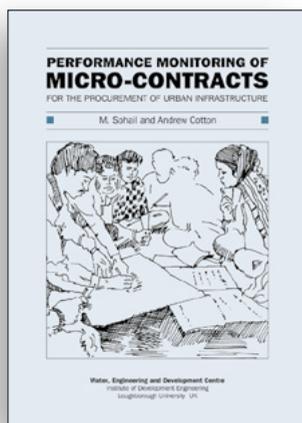
This publication comes with a CD containing pdf files of all the publications in this series including case studies from Pakistan, Sri Lanka and Tanzania.

148pp. [210/145]

2003 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 035 4



Performance Monitoring of Micro-contracts for the Procurement of Urban Infrastructure

M. Sohail and Andrew Cotton

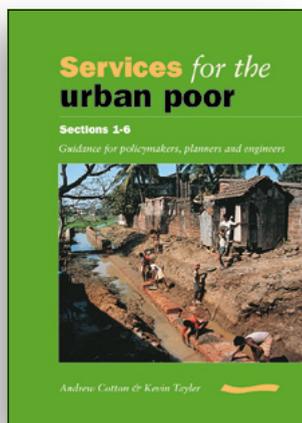
This document presents the findings from the DFID-funded project *Performance Monitoring of Infrastructure Procurement for Urban Low Income Communities*. The purpose of this project is to develop a framework and tools for the appraisal, monitoring and evaluation of micro-contracts for the procurement of local infrastructure in urban low-income communities. In addition to the standard measures of time, cost and quality, the work also attempts to capture some of the crucial wider socio-economic impacts of community-based works. The findings in this book will be of use to donor/lending agencies, government officials, and non-governmental organizations involved in improving services for the urban poor.

54pp. [210/148]

2000 Availability: in print / [online](#)

Price: £4.95

ISBN: 978 0 906055 70 0



Services for the Urban Poor

Andrew Cotton and Kevin Tayler

This set of manuals offers detailed guidance on the planning, design, implementation, operation and maintenance of basic services for the urban poor - based largely on experience from South Asia. It emphasises the need to integrate participatory approaches at the local level with strategic improvements to city level infrastructure. The readership includes policymakers, urban planners, and urban engineers.

Section 1. Guiding Principles

28pp. (250/176) **2000** **Availability:** in print / [online](#)
Price: £5.95 **ISBN:** 978 0 906055 78 6

Section 2. Working with Partners

28pp. (250/176) **2000** **Availability:** in print / [online](#)
Price: £5.95 **ISBN:** 978 0 906055 79 3

Section 3. Action Planning Guidelines

138pp. (250/176) **2000** **Availability:** in print / [online](#)
Price: £9.95 **ISBN:** 978 0 906055 80 9

Section 4. Technical Guidelines

218pp. (250/176) **2000** **Availability:** in print / [online](#)
Price: £14.95 **ISBN:** 978 0 906055 81 6

Section 5. From Action Plans to Implementation

40pp. (250/176) **2000** **Availability:** in print / [online](#)
Price: £5.95 **ISBN:** 978 0 906055 82 3

Section 6. Operation and Maintenance

28pp. (250/176) **2000** **Availability:** in print / [online](#)
Price: £5.95 **ISBN:** 978 0 906055 83 0



Serving All Urban Consumers

A marketing approach to water services in low- and middle-income countries

These books are a series of six publications that consider how water utilities working with other key stakeholders, can meet the needs and demands of urban water consumers – including the poor – through developing an understanding of the needs and demands of all consumer groups, and by the adaptation of a marketing and commercial approaches.

Book 1 – Guidance for government's enabling role

Kevin Sansom, Sam Kayaga, Richard Franceys, Cyrus Njiru, Sue Coates and Srinivas Chary

112pp. (297/210) **2004** **Availability:** in print / [online](#)
Price: £19.95 **ISBN:** 978 1 84380 054 5

Book 2 – Guidance notes for managers

Kevin Sansom, Richard Franceys, Cyrus Njiru, Sam Kayaga, Sue Coates and Srinivas Chary

252pp. (297/210) **2004** **Availability:** in print / [online](#)
Price: £24.95 **ISBN:** 978 1 84380 055 2

Book 3 – PREPP: Utility consultation with the urban poor

Sue Coates, Kevin Sansom, Sam Kayaga, Srinivas Chary, A.Narender and Cyrus Njiru

111pp. (297/210) **2004** **Availability:** in print / [online](#)
Price: £19.95 **ISBN:** 978 1 84380 056 9

Book 4: Sample strategic marketing plan for water services in Mombasa and the Coast region

Cyrus Njiru and Kevin Sansom

122pp. (297/210) **2004** **Availability:** in print / [online](#)
Price: £14.95 **ISBN:** 978 1 84380 057 6

Book 5: Sample strategic marketing plan for water services in Kampala City, Uganda

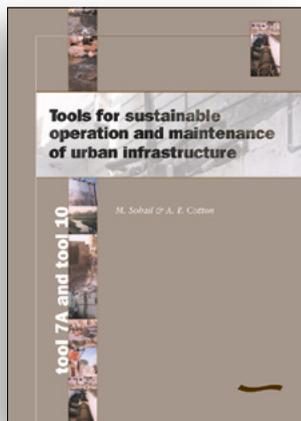
Sam Kayaga and Kevin Sansom

112pp. (297/210) **2004** **Availability:** in print / [online](#)
Price: £14.95 **ISBN:** 978 1 84380 058 3

Book 6: Sample strategic marketing plan for water services in Guntur, India

A. Narender, V. S. Chary and Kevin Sansom

60pp. (297/210) **2004** **Availability:** in print / [online](#)
Price: £12.95 **ISBN:** 978 1 84380 059 0



Tools for Sustainable Operation and Maintenance of Urban Infrastructure

Tool 7A and Tool 10

M. Sohail and Andrew Cotton

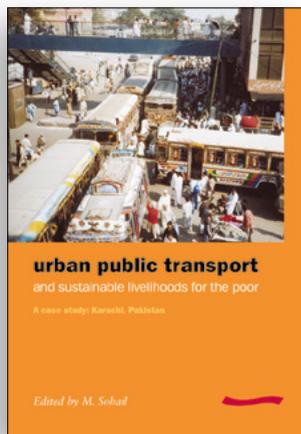
This booklet is a supplement to the WHO monograph *Tools for assessing the O&M status of water supply and sanitation in developing countries* which comprises nine tools for measuring and evaluating the effectiveness of operations and maintenance (O&M) of water supply and sanitation services. Tool 7 suggests performance indicators which are specific to water supply and sanitation; all other tools are generic and apply equally to any other of the urban services. Tool 7A has been produced as a supplement to Tool 7 which provides some indicators in relation to these other urban services. Tool 10 has also been prepared to offer advice on indicators for technical, financial and institutional sustainability.

40pp. (297/210)

2003 Availability: in print / [online](#)

Price: £9.95

ISBN: 978 1 84380 016 3



Urban Public Transport and Sustainable Livelihoods for the Poor

A case study, Karachi, Pakistan

Edited by M. Sohail

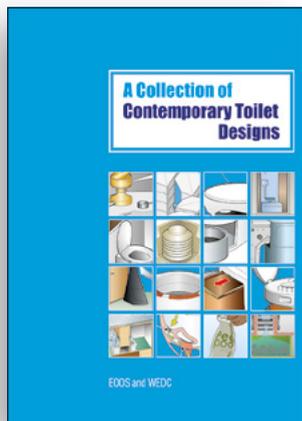
This book identifies, explores, and documents critical issues in the provision of transport services for and in low-income settlements in developing countries. The identified issues can be used at policy and operational levels to provide better transport services to low-income communities in urban areas. In the research methodology, a sustainable livelihoods framework was used to set the research framework. The focus of the research was Karachi, Pakistan.

208pp. (250/176)

2000 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 0 906055 76 2



A Collection of Contemporary Toilet Designs

E00S and WEDC

This collection is the result of the findings of E00S research which was supported by Sandec, the Department of Water and Sanitation in Developing Countries at the Swiss Federal Institute of Aquatic Science and Technology (Eawag). It covers a wide range of contemporary toilet designs along with a valuable list of website links where additional information about each design can be sought. This volume is a synthesis of the initial research log, designed and produced by The Water Engineering and Development Centre (WEDC) at Loughborough University. As conventional toilet designs are not included, it does not claim to be fully comprehensive but it nevertheless provides a useful overview of current research and development for fieldworkers and practitioners as well as engineers and researchers.

44pp. (297/210)
Price: £19.95

2014 Availability: in print / [online](#)
ISBN: 978 1 84380 155 9



Assessing Sanitation Policy

A series of WEDC Briefing Notes

This series of Briefing Notes *Assessing Sanitation Policy* is based on lessons learned from national sanitation policy assessments carried out in Ghana and Nepal, together with the review and assessment of sanitation policy in these and other countries. The Notes provide concise guidance on the importance of sanitation policy and what can be done to ensure that it is widely supported, relevant and implemented effectively.

Briefing Note: Overview – Sanitation policy: *Why is it important and how to make it work*

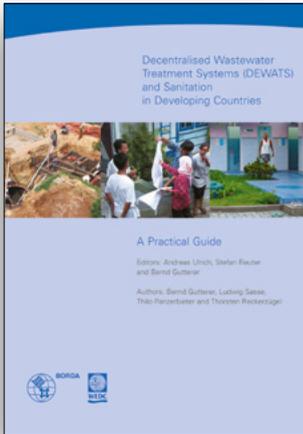
Briefing Note: Ghana – National sanitation policy in Ghana: *A case for improved co-ordination?*

Briefing Note: Nepal – Implementing national sanitation policy in Nepal: *Challenges and opportunities*

Briefing Note: Review – Comparing national sanitation policy content: *An initial review of nine country profiles*

28pp. (300/215)
Price: £12.95

2006 Availability: in print / [online](#)
ISBN: 978 1 84380 093 4



Decentralised Wastewater Treatment Systems and Sanitation (DEWATS)

A Practical Guide

Editors: Andreas Ulrich, Stefan Reuter and Bernd Gutterer

Authors: Bernd Gutterer, Ludwig Sasse, Thilo Panzerbieter and Thorsten Reckerzügl

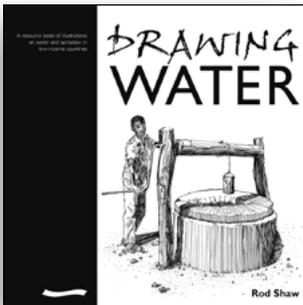
In many countries, a rapidly upcoming demand for DEWATS and a demand for efficient community-based sanitation (CBS) can be observed. DEWATS is designed to be an element of a comprehensive strategy for city-wide planning and sustainable infrastructure development. Not only the technical requirements for the efficient treatment of wastewater at a given location are explained, but the specific socio-economic conditions and steps for community action planning are also taken into consideration.

368pp. (251/185)

2010 Availability: in print / [online](#)

Price: £49.75

ISBN: 978 1 84380 128 3



Drawing Water

A resource book of illustrations on water and sanitation in low-income countries (Edition 2)

Rod Shaw

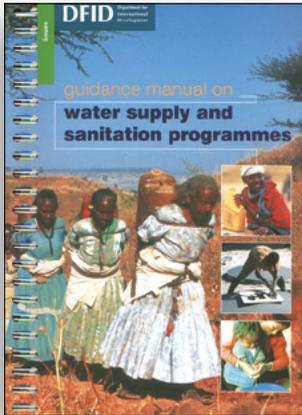
This book of black and white line illustrations contains over 600 images concerning water supplies and sanitation in low-income countries. Covering subjects from handpumps, standposts and community wells to pit latrines and solid waste disposal, it will prove an invaluable resource for teachers, project managers, fieldworkers, and health professionals active in communication, education and other development work. The book provides ready-made drawings from which locally-adapted illustrations can also be made by artists and non-artists alike. A compact disk of high-resolution images in electronic form is included.

206pp. (210/210)

2005 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 172 6



Guidance Manual on Water Supply and Sanitation Programmes

DFID commissioned this Guidance Manual from the WELL Resource Centre to assist staff and partners to develop effective and sustainable water supply and sanitation programmes. It represents collaboration across a range of professions within the Department and from key UK professionals in the sector. It details interdisciplinary approaches to planning and of partnership-based programmes.

The Manual comprises three chapters and appendices. These take the reader from an overview of the sector, through specific development perspectives, to detailed recommendations for each stage of the project cycle.

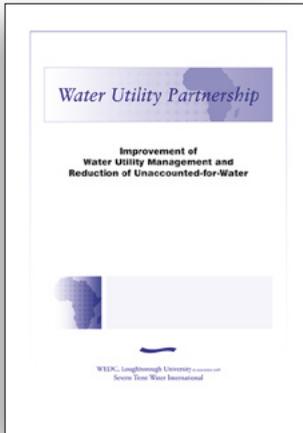
The first chapter is an introduction to water supply and sanitation projects and sets the scene. It describes the WS&S sector with particular focus on the development of services for the poor in both urban and rural areas. Emphasis is placed on the importance of co-operation and partnership and the chapter also introduces the DFID programme and project process.

Chapter 2 *Principles and practice* starts with an inter-disciplinary analysis of key issues and then sets out recommended approaches under seven perspectives: social development; health; environmental sustainability; economic and financial perspectives; institutional perspectives; technical aspects; and hygiene promotion and sanitation promotion. These are explored in some detail so that professional staff in DFID and its partners will gain a better understanding of all the aspects and not just their own speciality.

Chapter 3 *Water supply and sanitation in the DFID programme and project cycle* is the 'how to' part of the manual which brings together the disciplinary perspectives at each stage of the project cycle. The key issues to be taken into account are set out in a helpful 'question and recommendation' format.

Appendices include examples of logical frameworks for water supply and sanitation projects.

356pp. (210/297) **1999** **Availability:** [online](#)
ISBN: 978 0 906055 58 8



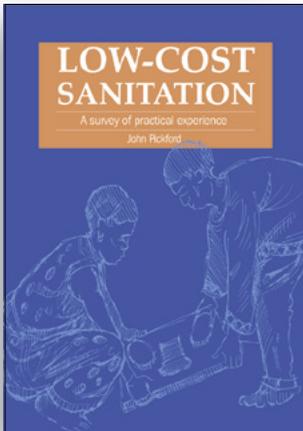
Improvement of Water Utility Management and Reduction of Unaccounted-for-water

WEDC and Severn Trent International

The African Water Utility Partnership for Capacity Building Africa project is part of the SIDA-funded Water Utility Partnership (WUP) Action Programme. WUP has pioneered a successful partnership between Severn Trent Water International, WEDC and six African water utilities to work together on the 'Improvement of Water Utility Management and Reduction of Unaccounted for Water' project. This project aimed at bringing about improvements in the performance of utilities which in turn will enable them to provide better water supply and sanitation services to residents of designated services areas, with particular emphasis on the urban poor.

72pp. (305/215)
Price: £14.95

2007 **Availability:** in print / [online](#)
ISBN: 978 1 84380 106 1



Low-cost Sanitation

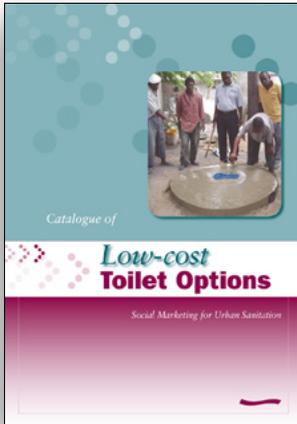
A survey of practical experience

John Pickford

This manual published by Practical Action describes and compares a range of low-cost systems – what they are, where they are appropriate, and how they can be planned, built, operated and maintained. Emphasis is given to 'software' aspects – the role of women and agencies in sanitation projects and programmes, and how householders and communities improve their own sanitation. The author examines the underlying health, social and cultural aspects and preferences in diverse regions of the world; and gives evidence of the diseases which occur through lack of adequate sanitation provision, and the health benefits which result from its installation or upgrading. The book concludes with a discussion about the practical, financial and organization considerations of obtaining or upgrading sanitation provision, the emphasis being firmly on the community and its needs and preferences.

176pp. (240/175)
Price: £14.95

1995 **Availability:** [in print](#)
ISBN: 978 1 85339 233 7



Low-cost Toilet Options

A catalogue

Edited by Amaka Godfrey

This catalogue has been prepared to help house owners in low-income urban communities choose an appropriate low-cost toilet option. It is designed to be used by toilet builders or other NGO or government fieldworkers who support house owners in their decision. Specifically developed for use in Dar es Salaam, Tanzania, it can also be used in many other low-income urban communities.

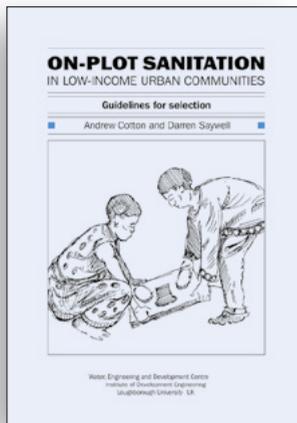
The toilet options presented in the catalogue were developed on the basis of results from consumer research and tested in low-income urban communities. Toilet builders were trained in the construction of each design.

28pp. (297/210)

2005 Availability: in print

Price: £19.95

ISBN: 978 1 84380 075 0



On-Plot Sanitation in Low-income Urban Communities: Guidelines for selection

Andrew Cotton and Darren Saywell

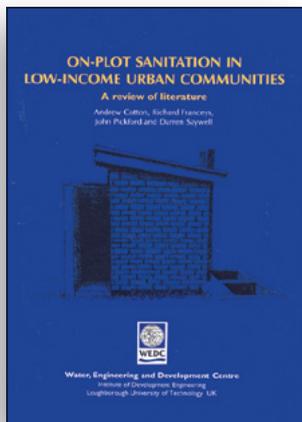
This book presents the findings from a DFID-funded project concerning the performance of on-plot sanitation systems in urban India, Ghana and Mozambique. It investigates how satisfactory on-plot sanitation is in the urban context, and provides guidance on its use for policymakers and professional staff of urban governments, development agencies and non-governmental organisations.

149pp. (210/148)

1998 Availability: in print / [online](#)

Price: £9.95

ISBN: 978 0 906055 55 7

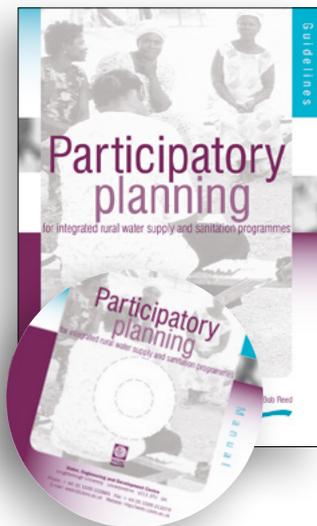


On-Plot Sanitation in Low-income Urban Communities: A review of literature

Andrew Cotton, Richard Franceys, John Pickford and Darren Saywell

More than three hundred documents were examined in this review and material relevant to on-plot urban sanitation has been summarized in sections dealing with technical, health and social, and management matters. Alternative technologies are critically reviewed, with special attention given to the relative advantages and disadvantages of each option.

80pp. (210/148) **1995** **Availability:** [online](#)
ISBN: 978 0 906055 44 1

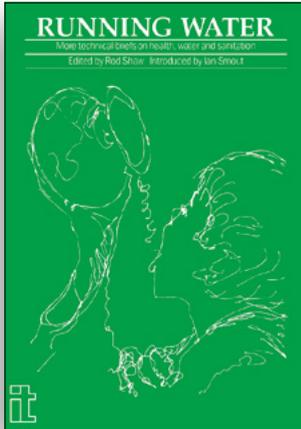


Participatory Planning for Integrated Rural Water Supply and Sanitation Programmes *Guidelines and Manual – 3rd Edition*

Jeremy Ockelford and Bob Reed

Designed to help planners and managers to develop their own rural water supply and sanitation programmes, this publication and CD have been developed to help meet two challenges in rural water supply and sanitation (RWSS): how to integrate the different components of RWSS and water resource management together with the institutional arrangements to provide the services; and to enable *all* stakeholders to participate in the planning process. The Guidelines and Manual provide a participatory process and methods to enable the user to address both these challenges. This new edition also contains copies of all the tables and forms in an editable format, so that users may expand and adapt them to meet specific needs.

136pp. (297/210) **2006** **Availability:** in print / [online](#)
Price: £29.95 **ISBN:** 978 1 84380 098 9



Running Water

More technical briefs on health, water and sanitation

Edited by Rod Shaw

Published by Practical Action Publishing, this is an additional collection of 32 short, highly illustrated introductions to appropriate water and sanitation technologies and processes to complement *The Worth of Water*. It covers a further range of subjects from water source selection and handpump maintenance to sanitary surveying, hygiene understanding and community management.

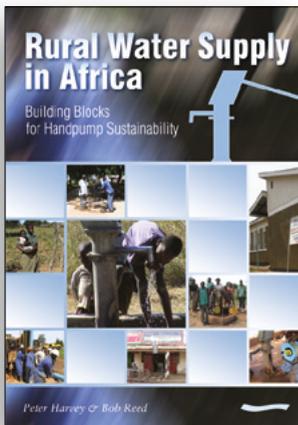
136pp (297/210)

1999 Availability: [in print](#)

Price: £14.95

ISBN: 978 1 85339 540 6

See also: [The Worth of Water](#)



Rural Water Supply in Africa

Building Blocks for Handpump Sustainability

Peter Harvey and Bob Reed

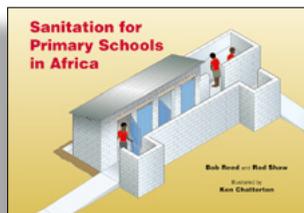
Rural water supplies in sub-Saharan Africa, particularly those relying on handpumps, often demonstrate low levels of sustainability. This book is designed to assist those responsible for planning, implementing and supporting rural water supply programmes to increase sustainability. Its primary aims are to raise awareness of issues that affect sustainability and the interrelationship between them, provide options for addressing these using examples, and describe how these options can be implemented. The importance of a programmatic approach to the delivery of rural water services is emphasised, as is the need for ongoing institutional support for community management and consideration of alternative management models.

306pp. (250/176)

2004 Availability: [in print](#) / [online](#)

Price: £29.95

ISBN: 978 1 84380 067 5



Sanitation for Primary Schools in Africa

Bob Reed and Rod Shaw. Illustrated by Ken Chatterton

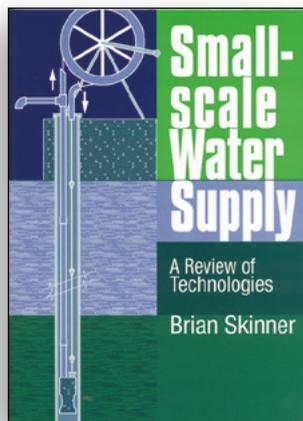
Produced by WEDC as a contribution to the International Year of Sanitation 2008, this book provides easy-to-use tools for assessing sanitation, water supply and handwashing facilities in primary schools in Africa so that appropriate decisions can be made about sanitation improvements. It also presents guidelines for rehabilitating or decommissioning existing latrines; for choosing the right type of latrine where new facilities are required; for siting latrines appropriately within a school compound; and for the operation and maintenance of these facilities. A number of low-cost latrine designs suitable for many rural and peri-urban locations in Africa are included. There are also guidelines to encourage handwashing with soap.

58pp. (210/300)

2008 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 127 6



Small-scale Water Supply

A Review of Technologies

Brian Skinner

Published by Practical Action Publishing, this handy book introduces the technologist and non-technologist alike to supplying water to small, low-income communities in a rural areas. It details the technologies that can be used for water supply in developing countries and also introduces the reader to important non-technical aspects to be considered when constructing facilities. While mainly related to point supplies such as wells, boreholes, springs and rainwater catchment systems, it also considers powered pumps, water storage, water treatment and piped distribution systems.

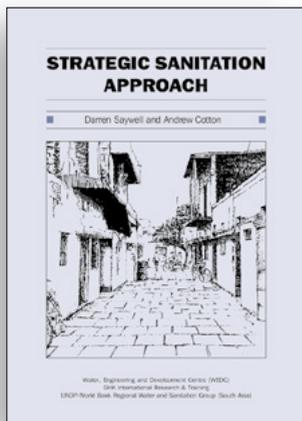
Water supply is a vast subject and this book enables field workers, designers and planners to develop an overview of the technologies available.

154pp (176/250)

2003 Availability: [in print](#)

Price: £12.95

ISBN: 978 1 85339 540 6



Strategic Sanitation Approach

A review of literature

Darren Saywell and Andrew Cotton

This book reports findings from DFID-funded project concerning the development of practical guidelines for the application of the Strategic Sanitation Approach (SSA) in urban areas. Results from a review of literature are discussed.

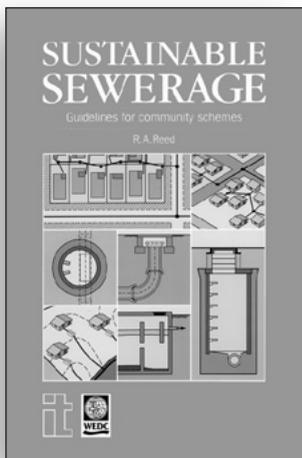
The purpose of the review is to examine how the key concepts underlying the SSA have been addressed in operational terms on the ground, highlighting examples where SSA ideas have been applied, what problems were identified in their application, and what issues require further consideration or clarification with the approach as a whole. Each section ends by abstracting the key points identified and posing questions which remain unresolved.

64pp. [210/148]

1998 Availability: in print / [online](#)

Price: £9.95

ISBN: 978 0 906055 60 1



Sustainable Sewerage

Guidelines for community schemes

R.A. Reed

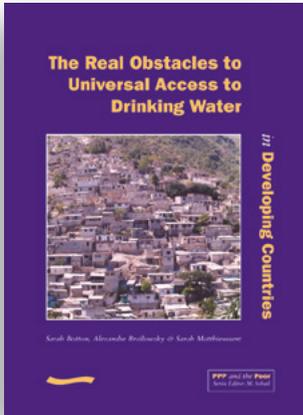
Published by Practical Action Publishing, this handbook describes these schemes and suggests objective methods of prioritizing communities' needs for sewerage. It surveys the planning, selection, design, management and maintenance of community schemes, and provides technical and financial suggestions on cost-effective practice and procedures. Non-conventional options are discussed as well as the conventional approach to sewerage design and implementation.

112pp [229/150]

1995 Availability: [in print](#)

Price: £10.95

ISBN: 978 1 85339 305 1



The Real Obstacles to Universal Access to Drinking Water

Sarah Botton, Alexandra Brailowsky and Sarah Matthieussent

The purpose of this article is to provide a retrospective analysis of two drinking water access programmes aimed at populations living in the poor neighbourhoods of (1) Buenos Aires (Argentina) and (2) Port-au-Prince (Haiti). The authors reflect on the real stakes behind these initiatives, based on an analysis of both experiences with their different development structures, and of the management models introduced (giving new momentum to the state-owned company in the case of Haiti and building a public-private partnership in Argentina).

46pp. (210/148)
Price: £9.95

2005 Availability: in print / [online](#)
ISBN: 978 1 84380 089 7



The Worth of Water

Technical briefs on health, water and sanitation

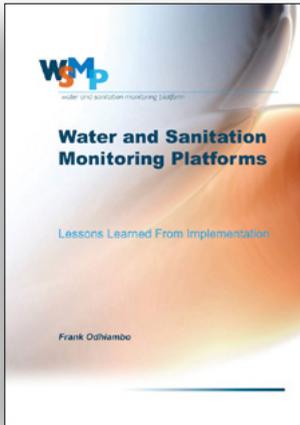
Introduced by John Pickford

The Worth of Water published by Practical Action Publishing has 32 sections, each a reprint of a technical brief that has appeared in the journal *Waterlines*. They provide simple guidance for fieldworkers on a variety of topics. Most were written and prepared by WEDC staff. See also: *Running Water*.

140pp. (297/210)
Price: £16.95

1991 Availability: [in print](#)
ISBN: 978 1 85339 069

See also: [Running Water](#)



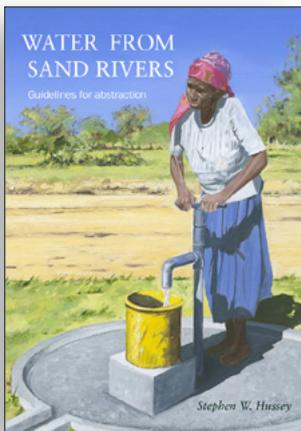
Water and Sanitation Monitoring Platforms *Lessons learned from Implementation*

Frank Odhiambo

This book communicates the lessons learned from an ACP-EU water facility funded project, involving Civil Society in Strengthening inter-sectoral Monitoring of Developments in the Provision of Water Supply and Sanitation Service. The project implemented in Ghana, Mozambique and Nigeria, was proposed by the WHO /UNICEF Joint Monitoring Programme (JMP) and implemented under the supervision of UNICEF. The project adopted a working title of Water and Sanitation Monitoring Platform (WSMP).

42pp. (297/210)
Price: £12.95

2010 Availability: in print / [online](#)
ISBN: 978 1 84380 134 4



Water from Sand Rivers *Guidelines for abstraction*

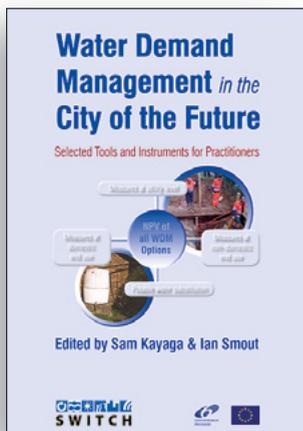
Stephen W. Hussey

Sand rivers can be found in arid and semi-arid areas of the world where water is in short supply. Despite their dry appearance, water often resides in aquifers beneath the surface and can provide a sustainable and safe supply for rural communities. However, dry rivers are often overlooked as a source of water.

Funded by the Dabane Trust, Zimbabwe and WETT, UK, this book sets out to address this issue and promotes the abstraction of water from sand rivers as a viable and affordable option for dryland areas. It enables the reader to assess the potential for abstraction from beneath a dry river bed and provides practical guidelines for doing so.

212pp. (250/176)
Price: £24.95

2007 Availability: in print / [online](#)
ISBN: 978 1 84380 126 9



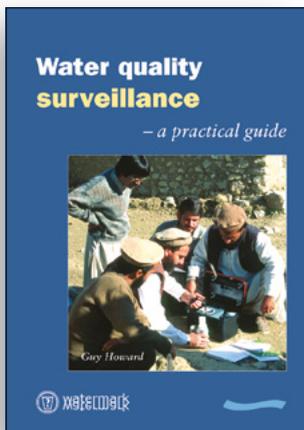
Water Demand Management in the City of the Future

Selected tools and instruments for practitioners

Edited by Sam Kayaga and Ian Smout

This book presents examples of tools and instruments that can be adapted by urban water professionals to mainstream WDM in the cities' strategic planning process. It reports on research undertaken as part of the EU-funded SWITCH project on 'Managing Water for the City of the Future', in which WDM was considered under a conceptual framework of Integrated Resource Planning, a process that embraces wider strategic planning principles and fits well within the integrated urban water resources management paradigm. The book presents concepts and case studies from both industrialised and low-income countries, with an emphasis for application to cities of low-income countries.

192pp. (250/176) **2011** **Availability:** in print / [online](#)
Price: £24.95 **ISBN:** 978 1 84380 136 8



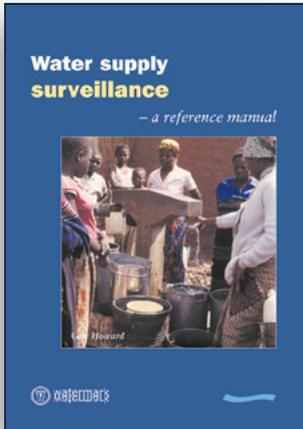
Water Quality Surveillance

A practical guide

Guy Howard

This guide is designed to help staff who undertake surveillance and monitoring of water supplies in developing countries. It provides simple information on how data may be collected and explains the use of equipment and inspection techniques. It also provides example forms that can be easily photocopied, guidance on how monitoring data can be used to improve water supplies and water handling, and how reporting of information can be used to initiate dialogue with communities.

88pp. (250/176) **2002** **Availability:** in print / [online](#)
Price: £14.95 **ISBN:** 978 1 84380 003 3



Water Supply Surveillance

A reference manual

Guy Howard

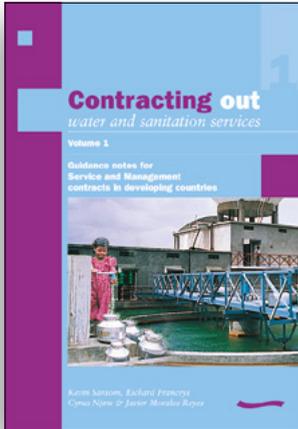
This book has been written for staff of environmental and public health authorities, water supply agencies and NGOs working in urban areas of developing countries based on field experience in Uganda, Ghana and Bangladesh. The guidelines provide a methodology for including poverty and vulnerability into surveillance planning and show how priority groups can be targeted. The book also provides guidance on data collection and use of surveillance findings in improving water supplies and water handling practices as a way of reducing public health risks derived from poor water supply. It emphasises the need for partnerships with communities and identifies the way in which information can be shared and used by a range of organizations.

248pp. (297/210)

2002 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 004 0



Contracting Out Water and Sanitation Services 1

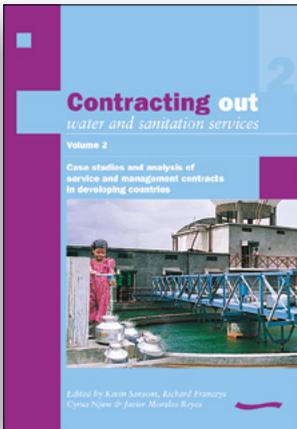
Guidance notes for Service and Management contracts in developing countries

Kevin Sansom, Richard Franceys, Cyrus Njiru, and Javier Morales-Reyes

This book considers how contracting out can be further enhanced to deliver improved water and sanitation service provision in low- and middle-income countries. Using example contract clauses and typical processes, it provides guidance for developing well-designed contracts. A number of specific guiding principles are included, as well as discussion of an appropriate enabling environment for contracting out.

96pp. (297/210)
Price: £19.95

2002 Availability: in print / [online](#)
ISBN: 978 0 906055 97 7



Contracting Out Water and Sanitation Services 2

Case studies and analysis of Service and Management contracts in developing countries

Edited by Kevin Sansom, Richard Franceys, Cyrus Njiru and Javier Morales-Reyes

This book presents contract analyses and case studies from around the world which draw out key lessons both for the local and international reader. The key questions addressed are:

- Where and how is contracting out being undertaken in the water sector and by whom?
- Is contracting out delivering benefits through improved efficiency and effectiveness?
- How can the use of contracting out be further enhanced to deliver improved water and sanitation service provision in low- and middle-income countries?

260pp. (297/210)
Price: £24.95

2002 Availability: in print / [online](#)
ISBN: 978 1 84380 013 2

Managing the Pipe Dreams - CD

Series compiled by Kevin Sansom

This pc compact disk comprises the electronic (pdf) files of a series of publications produced by WEDC. This is a comprehensive and handy resource for the management of urban water services for all consumer groups. Titles include:

Contracting out Water and Sanitation Services

– Volumes 1 and 2

Customer Relations Management – Parts A & B

Designing Water Supply and Sanitation Projects to

Meet Demand – Books 1, 2, & 3

Serving all Urban Consumers – Books 1 - 6

Willingness-to-pay Surveys – A streamlined approach

Size: 190/135

2004 Availability: CD

Price: £19.95

ISBN: 978 1 84380 053 8



Willingness-to-pay Surveys – A Streamlined Approach

Guidance notes for small town water services

Alison Wedgwood and Kevin Sansom

These guidance notes describe good practice for conducting robust 'willingness-to-pay' (WTP) surveys in small towns, using the Contingent Valuation Method (CVM), as part of a demand-responsive approach to the supply of services. Key areas covered include how to design and implement a WTP survey, as well as how to best use the survey information to inform project design and policy-making. Its aim is to encourage wider use of WTP surveys, particularly for small towns where it is inappropriate to merely assume which service options users prefer and are willing to pay for.

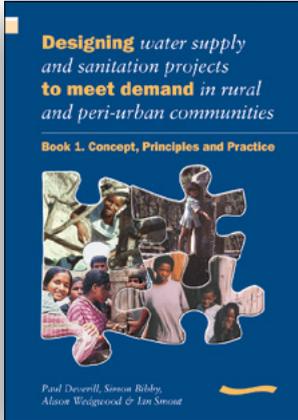
182pp. (250/176)

2002 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 014 9





Designing Water Supply and Sanitation Projects to Meet Demand - Book 1

Concept, principles and practice

Paul Deverill, Simon Bibby, Alison Wedgwood and Ian Smout

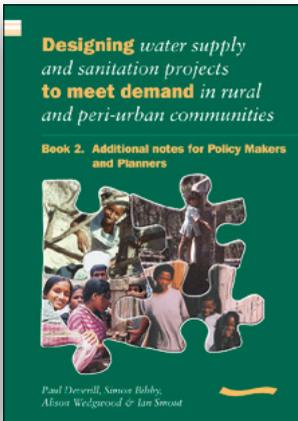
These guidelines are the result of two years collaborative research undertaken by WEDC with partners in Africa and South Asia. They demonstrate how water supply and sanitation projects in rural and peri-urban areas can be designed to meet user demand. The aim is to improve the use and sustainability of the services provided. Book 1 is aimed at practitioners – engineers, social facilitators, financial specialists and managers – implementing water supply and sanitation projects in rural and peri-urban areas.

184pp. (250/175)

2002 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 006 4



Designing Water Supply and Sanitation Projects to Meet Demand - Book 2

Additional notes for policymakers and planners

Paul Deverill, Simon Bibby, Alison Wedgwood and Ian Smout

This book supplements *Designing Water Supply and Sanitation Projects to Meet Demand - Book 1: Concept, principles and practice*. It provides additional information for policy-makers and planners.

66pp. (250/175)

2002 Availability: in print / [online](#)

Price: £9.95

ISBN: 978 1 84380 007 1



Designing Water Supply and Sanitation Projects to Meet Demand - Book 3

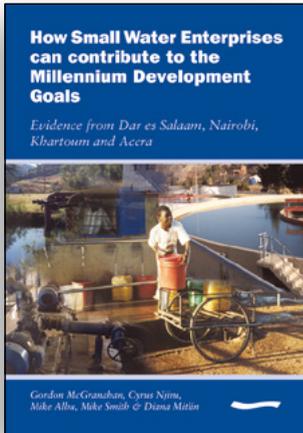
Ensuring the participation of the poor

Paul Deverill, Simon Bibby, Alison Wedgwood and Ian Smout

This booklet is designed to be read in conjunction with Book 1 (Concept and Practice) and Book 2 (Additional Notes for Policy Makers and Planners) of the *Designing to Meet Demand* guidelines. Whilst these describe a number of practical approaches, this third booklet focuses on a single albeit very important issue: how to ensure the participation of the poor within a demand responsive approach. If this is not done, those in most need of improved services stand every chance of being further marginalised.

16pp. (297/210)
Price: £5.95

2002 Availability: in print / [online](#)
ISBN: 978 1 84380 018 7



How Small Water Enterprises can contribute to the Millennium Development Goals

Evidence from Dar es Salaam, Nairobi, Khartoum and Accra

G. McGranahan, C. Njiru, M. Albu, M. Smith & D. Mitlin

For centuries, Small Water Enterprises (SWEs) have supplied a large share of the water market in the urban centres of most low-income countries. Such SWEs have proved themselves economically viable, and often operate in competitive conditions. They extend water services to informal settlements that have little prospect of being supplied with piped water from the local utility. Unfortunately, they attract comparatively little investment, and even less support from governments. The incremental but critically important improvements they can provide tend to be overlooked by governments and international agencies. In international statistics any household that gets its water from vendors is defined as lacking access to improved water supplies.

This book is one of the outputs from a project designed to identify and test out ways of improving the water services delivered to the urban poor through SWEs. As such, it will prove an invaluable resource for water utility managers and policymakers. The book includes accounts of fieldwork undertaken in a number of African cities: Dar es Salaam (Tanzania); Nairobi (Kenya); Khartoum (Sudan) and Accra (Ghana). Even in these cities, where dependence on SWEs is high, the services provided by these SWEs have been poorly documented until now.

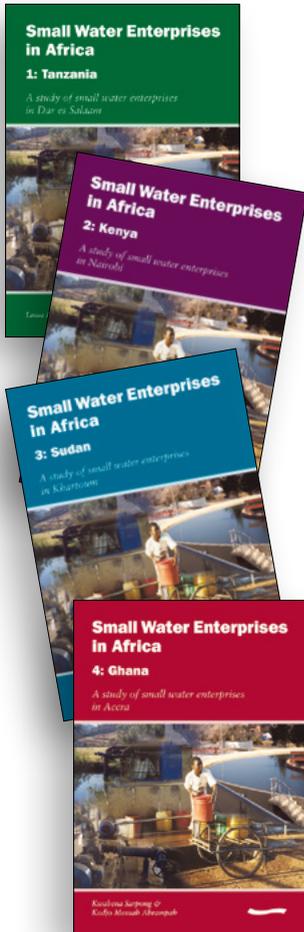
Other publications in this series of outputs are listed on the next page.

58pp. (297/210)

Price: £14.95

2006 Availability: in print / [online](#)

ISBN: 978 1 84380 091 0



Small Water Enterprises in Africa 1: Tanzania

A study of small water enterprises in Dar es Salaam

Linus Materu & Mwanakombo Mkanga

156pp. (250/175)

2006 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 094 1

Small Water Enterprises in Africa 2: Kenya

A study of small water enterprises in Nairobi

Isaack Oenga & David Kuria

108pp. (250/175)

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ISBN: 978 1 84380 095 8

Small Water Enterprises in Africa 3: Sudan

A study of small water enterprises in Khartoum

Mohamed Elamin Abdel Gadir

76pp. (250/175)

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ISBN: 978 1 84380 096 5

Small Water Enterprises in Africa 4: Ghana

A study of small water enterprises in Accra

Kwabena Sarpong & Kodjo Mensah Abrampah

160pp. (250/175)

2006 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 097 2

This series of studies complement the book [How Small Water Enterprises can contribute to the Millennium Development Goals](#).

Water Safety Plans: Book 1

Planning water safety management for urban piped water supplies in developing countries

Sam Godfrey and Guy Howard

124pp. (250/176)

2005 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 052 1

Water Safety Plans: Book 2

Supporting water safety management for urban piped water supplies in developing countries

Sam Godfrey and Guy Howard

132pp. (250/176)

2005 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 082 8

Historically, global control of drinking water has relied upon infrequent testing of selected water quality parameters at specified points within a water supply. Weaknesses identified by the World Health Organization (WHO) in this approach have resulted in a fundamental change noted in the revised, third edition of the WHO Guidelines for Drinking Water Quality, 2004. The change involves the development of quality assurance processes known as Water Safety Plans (WSPs) founded upon the HACCP principles used in the food industry.

These two books document state of the art research designed to complement the advances being made in the global water quality sector. Book 1 provides guidelines for implementing WSPs in developing countries. Book 2 provides further detail on supporting programmes. Evidence for these books is drawn from three years of research undertaken in Uganda and India funded by the Department for International Development (DFID).

Together these books provide essential reading for water utility managers, helping them to assess, identify and manage water quality risk in their piped water supplies; and individuals and organizations representing vulnerable groups, suggesting methods for improving monitoring and management of water quality in low socio-economic areas.





Water Safety Plans: Book 3

Risk Assessment of Contaminant Intrusion into Water Distribution Systems

K Vairavamoorthy, S D Gorantiwar, J Yan, H M Galgale, M A Mohamed-Mansoor and S. Mohan.

260pp. (297/210)

2006 Availability: in print / [online](#)

Price: £24.95

ISBN: 978 1 84380 102 3

Water Safety Plans: Book 4

IRA-WDS Software and Manual for Risk Assessment of Contaminant Intrusion into Water Distribution Systems

K Vairavamoorthy, SD Gorantiwar, J Yan, HM Galgale

124pp. (297/210)

2006 Availability: in print / [online](#)

Price: £19.95

ISBN: 978 1 84380 103 0

These books have been written specifically for practitioners involved in the operation, maintenance and management of piped water distribution systems in urban areas of developing countries. Practitioners include engineers, planners, managers, and water professionals involved in the monitoring, control and rehabilitation of water distribution networks.

Book 3 is a manual for using the developed software, IRA-WDS (Improved Risk Assessment for Water Distribution Systems), a Geographical Information System (GIS) that aids in evaluating the risk of deterioration of the water distribution network of a water supply system. The manual is a structured document and explains a step-by-step procedure for using the IRA-WDS, with examples.

The software IRA-WDS has been developed to evaluate risks to piped water distribution systems of urban areas in developing countries. Book 4 enables the use of this software. The software consists of three models, namely the Contaminant Ingress Model, Pipe Condition Assessment Model and Risk Assessment Model. The IRA-WDS is designed to use these models together or individually. This manual provides a step-by-step procedure for using these models and obtaining results.

Our new, developing range of copiously illustrated guides provide topic specific introductory notes and/or technical specifications on various aspects of water and sanitation.

The guides range from 8 to 36 pages and current titles are listed below. The online editions are available to download free of charge from our website. Visit www.lboro.ac.uk/research/wedc/resources/pubs/guides to find out more. Visit [MyWEDC](#) to find editions suitable for self-printing.

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A volume of Proceedings is produced after each conference and the WEDC website hosts over 2000 pdf documents of every published paper since the first conference held in 1973. [Papers can be searched and downloaded free of charge.](#) They provide a unique resource and present insight into experience and lessons learned from which all can benefit.

The [WEDC International Conference](#) is a highly respected, global platform for practitioners, decision makers, academics and researchers who lead water and sanitation innovation in developing countries.

Conceived in the early 1970s, the Conference is held regularly (usually each year) in either Africa or Asia and is the only conference of its type to be co-organized and hosted in a developing country. This unique collaboration attracts wide local participation from the host country, and provides an invaluable opportunity, that might not otherwise be possible, for local delegates to meet and share experiences with delegates from other countries.

Over the last ten years thousands of delegates from over 78 countries have attended the Conference. More than 90 per cent of the delegates have come from developing countries – a unique statistic amongst conferences relating to international development. Unlike other conferences, most of the delegates are practitioners and decision-makers.



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 KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KNUST), KUMASI, GHANA
ISBN: 978-1-911252-03-0 Price: £9.95 [Papers](#)
Availability: on CD



- 2017** 40th WEDC International Conference
Local Action with International Cooperation to Improve and Sustain Water, Sanitation and Hygiene (WASH) Services
 LOUGHBOROUGH UNIVERSITY, UK
ISBN: 978-1-911252-13-9 Price: £9.95 [Papers](#)
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NEW

Technical Notes on Drinking-water, Sanitation and Hygiene in Emergencies

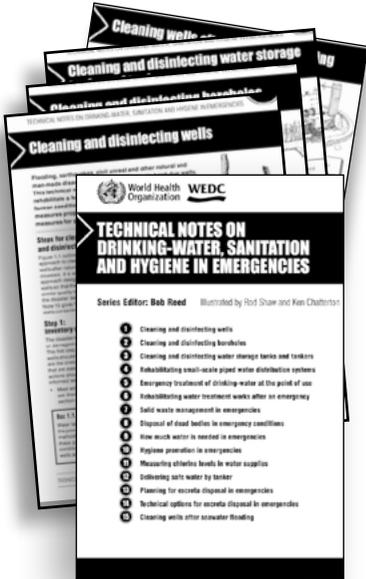
Series Editor: Bob Reed
Illustrated by Rod Shaw and Ken Chatterton

These four page highly-illustrated notes have been prepared by WEDC for the World Health Organization to assist those working immediately or shortly after an emergency to plan appropriate responses to the urgent and medium-term water and sanitation needs of affected populations.

The notes are relevant to a wide range of emergency situations, including both natural and conflict-induced disasters.

They are suitable for field technicians, engineers and hygiene promoters, as well as staff from agency headquarters.

[Download these notes](#)



Fiches Techniques en Situation D'urgence

Auteur et Série Editeur: Bob Reed
Illustrated par Rod Shaw and Ken Chatterton
Traduit par Amélie Cardon

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WELL

Resource Centre for Water, Sanitation and Environmental Health

The WELL Resource Centre for Water, Sanitation and Environmental Health was first established by the Department for International Development of the British Government (DFID) in 1996 and was managed by the London School of Hygiene and Tropical Medicine (LSHTM) and WEDC, then subsequently by WEDC, LSHTM and IRC in the Netherlands.

WELL provided a focal point for access to information about water, sanitation and environmental health and related issues in developing and transitional countries.

Although WELL is no longer active, it produced an invaluable series of outputs which you can browse and download from the WEDC website. The outputs include:

- WELL Books
- WELL Country Notes
- WELL Studies
- WELL Briefing Notes
- WELL Fact Sheets
- WELL Technical Briefs

WELL resources were developed in partnership with:

- AMREF: African Medical and Research Foundation (Kenya)
- ICDDR-B: Centre for Health and Population Research (Bangladesh)
- IRC: International Water and Sanitation Centre (The Netherlands)
- IWSD: The Institute of Water and Sanitation Development (Zimbabwe)
- LSHTM: London School of Hygiene & Tropical Medicine (UK)
- NWRI: National Water Resources Institute (Nigeria)
- SEUF: Social and Economic Unit Foundation (India)
- TREND: Training, Research and Networking for Development (Ghana)

www.lboro.ac.uk/research/wedc/well

Violence, Gender and WASH *A practitioner's toolkit*

This toolkit has been developed in response to an acknowledgement that although the lack of access to appropriate sanitation, hygiene and water services is not the root cause of violence, it can lead to increased vulnerabilities to violence of varying forms. Incidences have been reported from a wide range of contexts, often anecdotally but with regular occurrence, with a number of targeted studies confirming the same.

By recognising both the risks of violence associated with WASH and the potential benefits of WASH it is hoped that the toolkit can shine a light on this problem and encourage practitioners to recognise their capacity to make WASH safer and more effective.

Effectively considering gender in the process of establishing sustainable WASH services can also contribute to the process of longer-term change in attitudes and relationships between men and women. This in turn can contribute to a transformative process that can help reduce vulnerabilities to violence over the longer term. However, for WASH actors, particularly for those working in the longer-term developmental contexts, there has been a lack of clarity on the practical steps that can be taken so that they can contribute to reducing vulnerabilities through improved policy and programming. This toolkit aims to fill this gap. It has been developed by Sarah House, Suzanne Ferron, Dr Marni Sommer and Dr Sue Cavill, on behalf of WaterAid with contributions from a wide range of organisations and individuals, including WEDC.

Visit the <http://violence-wash.lboro.ac.uk> for access to the online materials.



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