

Low-cost sewerage

—Duncan Mara¹

Research and development undertaken by the World Bank during 1976–1986 (1, 2, 3) has shown clearly that possession, proper use and maintenance of a sanitation facility are more important, in terms of improving health, than the actual sanitation technology employed, provided that it is affordable and socioculturally acceptable. Nevertheless, sanitation technology choices have to be made, and the principal choice is between on-site and off-site systems, as follows:

- On-site technologies:**
 - VIP latrines (or other types of pit latrine)
 - pour-flush toilets
 - septic tanks
- Off-site technologies:**
 - conventional sewerage
 - low-cost (unconventional) sewerage
 - settled sewerage
 - simplified sewerage

These technologies are described in the literature (see, for example, Mara (4, 5), Mara and Sinnatamby (6), Otis and Mara (7), Sinnatamby (8), Bakalian et al. (9) and, more generally, Mara (10)). The two low-cost sewerage technologies are less well known. Yet, in low-income areas with an adequate water supply these are viable sanitation options—often, depending on housing density, they are the only feasible options. This article reviews these low-cost sewerage options, their potential and their limitations. It also provides guidance on how to choose the most appropriate option, and gives examples of their successful application (see also (16)).

Nomenclature of low-cost sewerage

Both settled sewerage and simplified sewerage use small-diameter sewers laid at shallow depths and in which the flow is, ideally, due to gravity. Other terms, such as small-bore sewerage, small-diameter gravity sewerage or shallow sewerage are unclear. The definitions used in this article follow the Portuguese terminology developed in Brazil (see (11)) and are outlined below.

Settled sewerage: a system in which wastewater from one or more households is discharged into a single-compartment septic tank (usually called a solids interceptor tank). The settled (or solids-free) effluent from the septic tank is then discharged into shallow, small-bore gravity sewers. Settled sewerage is thus the same as small-bore sewerage as described by Otis and Mara (7), small-diameter gravity sewerage (12) and common effluent drainage (13). (In Portuguese it is called *redes de esgotos decantados*; in French, *réseaux d'eaux usées décantées*; and in Spanish (17), *alcantarillado sin arrastre de sólidos*.)

Simplified sewerage describes shallow sewerage as used by Sinnatamby (8) and its in-block variant called backyard or condominium sewerage (15). This system does not

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Low Cost Sewerage

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enfin ce n est pas encore le cas pour la poche de saint nazaire le 7 mai à 13h les parlementaires alliés rencontrent au café loiseau près de la gare de cordemais les représentants allemands au grand étonnement des alliés