

## 7 0 Sewerage 7 1 Guidelines 7 2 Detailed Sewerage

Over the past few years on-site sanitation has been widely promoted as a solution which can be quickly implemented to address sanitation issues, and it is gaining traction. As such, treatment of the contents emptied from on-site containments has become a pressing issue. While dedicated treatment facilities for this purpose have been advocated, co-treating these wastes in sewage treatment facilities is a promising option, which many countries have implemented or are exploring. This option maximises the utilisation of city infrastructure. In cases where the existing sewage treatment facilities are underutilised, co-treatment presents a ready solution for managing fecal sludge and septage. In spite of co-treatment being a well-known practice in many countries, it remains clouded in uncertainty, especially regarding the technical advisability, and potential risks of co-treating fecal sludge or septage in sewage treatment plants. Planners and decision-makers are often very apprehensive in considering co-treatment. As a result, the opportunity to better utilise available infrastructure for co-treatment of sludge is often being missed. Meanwhile, there are also many cases where co-treatment has been tried, either successfully or otherwise, but it has not been possible to draw conclusions from these, to guide

the way forward. This guide book explores some of the basic principles behind sewage treatment, and how it may be impacted by co-treatment of wastes from on-site containments, to try to throw some light on how co-treatment could be considered, in an incremental manner, recognising risks and mitigating them. It is intended to facilitate a better understanding among planners, engineers, decision makers and technical practitioners and to help them evaluate and consider the option of co-treatment.

Literature cited. pp. 25.

Proceedings of the Second European Symposium held in Vienna, Austria, 21-23 October, 1980

Drinking Water Distribution, Sewage, and Rainfall Collection (Back cover) Drinking Water Distribution, Sewage, and Rainfall Collection is the first textbook produced in French and English entirely devoted to practical hydraulic problems as they occur in modern cities. It looks at the design and application of equipment for drinking water distribution, runoff and sewage collection. Fundamental hydraulic principles are presented clearly and their application is illustrated in examples representative of real-world situations. Exercises and problems enable students to test their knowledge in each chapter. Specific topics include the measurement of sewage flow, sewage pumping stations, pump selection, inverted siphon, and characteristics of pipes available on the market in a wide variety of materials. The textbook also covers issues such as water hammer and other overpressures, dead and live loads, underground pipe

installation, water supply to high rise buildings, the design of sewer and water service connections, water flows and volumes for fire fighting, water intake and intake pipes, fire hydrants, water inlets and valve settings on water networks, sewage outfall, pipe freezing and corrosion, thrust blocks and restrained joints, culverts, etc. One chapter is entirely devoted to waterborne diseases, chemical contaminants and dangerous gases that accumulate in enclosed spaces. Engineers, technicians and scientists can use the textbook to learn the basic requirements for designing and evaluating sanitary storm networks, sewage networks and water distribution networks. François G. Brière is a civil engineer and Professor in the Department of Civil, Geological and Mining Engineering at the École Polytechnique de Montréal. He received his education in Québec and the United States and worked for the Ministère des Affaires municipales et des Régions du Québec (Ministry of municipal and regional affairs of Québec) before entering academia, where he has taught water chemistry, sewage treatment and urban hydraulics for more than 30 years.

Supplement to Progress in Water Technology: Discharge of Sewage from Sea Outfalls is a proceeding of an international symposium held at Church House, London on 27 August to 2 September 1974. Said symposium is concerned with the pollution and dangers to health of sewage discharged from sea outfalls. The book discusses the discharge of sewage from sea outfalls and the problems associated with it according to location: the North Sea, the Mediterranean, the United States, Hong Kong, and the Baltic. Also covered in the book are the effects of pollutants, heavy metals, and microorganisms on the marine environment; how pollutants can be used as an indicator of pollution; and means of the elimination of pollutants. The text is recommended to sanitation engineers, port authorities, marine biologists, and

officials concerned with aquatic resources and residential areas along coastlines. Anaerobic digestion has no effect on the quantity of the waste treated, but it affects its quality and its usefulness as fertilizer. This conference proceedings collection of twenty papers delves into the issue.

Studies on the agricultural utilization of phosphate from incinerated sewage sludge and meat & bone mealCuvillier VerlagReports on Sewerage WorksCharacterization, Treatment and Use of Sewage SludgeProceedings of the Second European Symposium held in Vienna, October 21–23, 1980Springer Science & Business Media

Includes various departmental reports and reports of commissions. Cf. Gregory. Serial publications of foreign governments, 1815-1931.

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