

Fats, Roots, Oils, and Grease (FROG) in Centralized and Decentralized Systems



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Reviews

An extremely wonderful pdf with lucid and perfect explanations. I could possibly comprehend every little thing out of this created e pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Janie Wilkinson)

FATS, ROOTS, OILS, AND GREASE (FROG) IN CENTRALIZED AND DECENTRALIZED SYSTEMS



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Mixed media product. Book Condition: New. Not Signed; Comprises Fats, Roots, Oils, and Grease (FROG) in Centralized and Decentralized Systems (03-CTS-16T) on CD-ROM containing Excel tool + companion reports and Assessment of Grease Interceptor Performance (03-CTS-16TA) and FOG Interceptor Design and Operation (FOGIDO) Guidance Manual (03-CTS-16TB) in PDF format. Fat, oil, and grease (FOG) is generated everyday by food preparation and cleaning activities conducted at commercial establishments and, on a smaller scale, by residential sewer usage. Another common problem, known to all plumbing and utility maintenance personnel, is the process of increasingly dense mats of root hair. FOG or root accumulations in the sanitary sewer collection system result in reduced capacity that may lead to sanitary sewer overflows (SSO) if not periodically cleaned. As the mat or accumulation commence, the effect of slowed wastewater flow exacerbates the rate of accumulation and deposit of FOG materials onto the pipe walls, thereby reducing capacity. The primary means of controlling FOG blockages is to capture and retain FOG materials through passive grease interception devices. Limited scientific studies have been done evaluating these devices, and many claims of enhanced performance made in marketing strategies by manufacturers of grease and oil interception devices need to be verified by objective and unbiased research protocols. This report performed an evaluation of field grease interceptors through their separation and cleaning cycles, performed controlled laboratory scale grease interceptor tests and numerical simulations to assess their removal efficiency at different residence times and under different geometric configurations. Currently, no study has performed any analysis of the chemical and physical makeup of FOG deposits formed in the sewer collection system. This type of information would be a crucial first step in understanding what compounds should be limited in the effluent discharge of grease interceptors. This report identifies the major chemical constituents...



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