



Pipeline distribution systems account for the vast majority of the physical infrastructure in the water industry. Their effective management represents the primary challenge to the industry, from both an operational and public health standpoint. Biofouling has a ubiquitous presence within these systems, and it can significantly impede their efficiency, through an increase in boundary shear caused by characteristic changes in surface roughness dynamics. Nevertheless, conventional pipeline design practices fail to take into account such effects, partially because research findings that could contribute to upgraded and optimized design practices appear inconsistent in the literature. The overall aim of this study was to improve the current scientific understanding of biofouling within water and wastewater pipelines; for the purpose of instigating a step-change in pipeline design theory by incorporating biofouling, thereby enabling future pipelines to be as efficient as practicable.

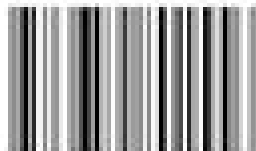
Matthew Cowle

Biofouling in pipelines

Assessing the impact of biofouling on the hydraulic efficiency of pipelines



Matthew graduated from Cardiff University with a doctoral degree in civil engineering in 2015. Following the completion of his PhD he joined Mett MacDonald Ltd. Matthew has published research findings in several reputable journals and his main areas of interest include experimental hydraulics and in-sewer processes.



978-3-659-80155-6

Biofouling Pipelines Assessing Biofouling Efficiency

Christian G. Meyer



Biofouling Pipelines Assessing Biofouling Efficiency:

Biofouling in Pipelines Matthew Cowle, 2015-11-25 Pipeline distribution systems account for the vast majority of the physical infrastructure in the water industry. Their effective management represents the primary challenge to the industry from both an operational and public health standpoint. Biofouling has a ubiquitous presence within these systems and it can significantly impede their efficiency through an increase in boundary shear caused by characteristic changes in surface roughness dynamics. Nevertheless, conventional pipeline design practices fail to take into account such effects partially because research findings that could contribute to upgraded and optimised design practices appear inconsistent in the literature. The overall aim of this study was to improve the current scientific understanding of biofouling within water and wastewater pipelines for the purpose of instigating a step change in pipeline design theory by incorporating biofouling thereby enabling future pipelines to be as efficient as practicable. Assessing the Impact of Biofouling on the Hydraulic Efficiency of Pipelines Matthew Cowle, 2015

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This book provides readers with recent insights and practical tools for the design, maintenance and repair of submarine pipeline. Based on research and field experience of the authors, it offers a comprehensive text on both the foundational aspects of pipeline integrity and the latest advancements in inspection and repair technologies. It covers visual non-destructive testing and intelligent technologies for inspection and simulations and reliability analysis for assessing corroded pipelines. In turn, it examines impact damage mechanisms and thermal buckling behavior. Further, it covers composite pipelines including their mechanical properties and failure mechanisms under complex loads. It addresses dent behaviors in steel pipelines highlighting innovative repair techniques and emerging trends. Written for professionals such as engineers, project managers and researchers, this book offers advanced insights and practical tools for assessing submarine pipelines operating under complex conditions in the context of increasingly challenging marine environments. **Impact and**

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