



An experimental set-up and monitoring program for full-scale tests of six permeable pavements systems in Chopenhagen, Denmark

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HANDBOOK

ARCHITECTURAL DREAMS AS POINTERS FOR WHERE TO FOCUS FUTURE RESEARCH

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Where to focus research within water sensitive urban design, is the key question of this paper. By studying drawings and project descriptions in the initial stage of a design phase, we can detect the architectural dreams of landscape architects and urban planners and thereby identify the points of interest to our research. In relation to WSUD, it is worth looking at the proposed use of SUDS. More proposals from the architectural competition, *Climate Change Adaption in Kokkedal* (2012) are chosen as representing typical issues related to the retrofit of Danish suburban areas. The methods are built on interpretive strategies, design evaluation and diagnosis (Deming, 2011).

TOXICITY CHARACTERISATION OF URBAN STORMWATER IN AUSTRALIA

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The contrast between rapidly growing population and limited water resources is a pressing issue of urban water supply. Rising demand for urban water exceeds supply, due to limited water sources and population growth. Stormwater harvesting has become an attractive alternative strategy to address this shortage, however, urban stormwater is also a major source of surface water pollution. Runoff from different urban catchments with source contributions from anthropogenic activities and various land uses causes variable contaminant profiles, thus posing a challenging task for environmental monitoring and risk assessment. A thorough understanding of raw stormwater quality is essential to develop appropriate treatment facilities for potential indirect potable reuse of stormwater. Only scarce data is available on stormwater toxicity, while some of the key chemical components have previously been characterised. We benchmarked stormwater samples from urban, residential and industrial sites across various Australian capital cities against samples from the entire water cycle, from sewage to drinking water.