

Annotated Bibliography of Urban Wet Weather Flow Literature from 1996 through 2000

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Abstract

This document is a compilation of urban wet weather flow (WWF) literature reviews for the five years from 1996 through 2000. These reviews were originally published in the annual literature review issues of *Water Environment Research*. Over this five year period of time, many people were involved in preparing these urban wet weather flow reviews, many associated with the EPA's Wet-Weather Flow Research Program. See the acknowledgements section for the complete list of contributors. This paper re-organizes and combines these individual reviews into a single document for easier use. Over this five year period, the field of urban wet weather flow research has expanded dramatically, likely due to increased interest in the US due to the NPDES stormwater permit program, plus increased awareness of the seriousness of urban WWFs throughout the world. About 2500 references are included in this compiled review, indicating the magnitude of interest in this topic. In addition, the number of references for each year has dramatically increased compared to the previous year. Another indication of the increasing interest in urban WWFs is the large number of specialized stormwater conferences that are now scheduled each year, plus the increasing number of nonpoint sessions at large international conferences.

Major proceedings related to WWFs published during 2000 included: (1) 2000 Joint Conference on Water Resources Engineering and Water Resources Planning & Management (ASCE, 2000); (2) WEFTEC 2000, 73rd Annual Conference and Exposition (WEF, 2000); (3) Collection Systems Wet Weather Pollution Control: Looking into Public, Private and Industrial Issues (WEF, 2000); (4) Watershed Management 2000 (WEF, 2000); (5) Applied Modeling of Urban Water Systems, Proceedings of the Conference on Stormwater and Urban Water Systems Modeling (CHI, 2000); and (6) 2000 Annual Meeting and International Conference of the American Institute of Hydrology (AIH, 2000). During 1999, the major published WWF related conference included: (1) National Conference on Retrofit Opportunities for Water Resource Protection in Urban Environments; (2) Comprehensive Stormwater & Aquatic Ecosystem Management, Auckland, New Zealand; (3) the Eighth International Conference on Urban Storm Drainage, Sydney, Australia; (4) Water Environment Federation 72nd Annual Conference and Exposition, New Orleans, LA; (5) American Society of Civil Engineers 26th Annual Conference, Water Resources Planning and Management, Tempe, Arizona; (6) American Water Resources Association 1999 Annual Water Resources Conference – Watershed Management to Protect Declining Species, Seattle, WA; and (7) New Applications in Modeling Urban Water Systems, Guelph, Canada. For 1996, much of the literature cited came from documents covering noteworthy global conferences (Bathala, 1996; Eng. Foundation, 1996; EPA 1996a; Hallam *et al.*, 1996; Int. Water Res. Assoc., 1996; Maxwell *et al.*, 1996; Sieker and Verworm 1996; Soc. Environ. Toxicol. and Chem., 1996; Water Environ. Fed., 1996a, 1996b, and 1996c.). In addition, the U.S. Environmental Protection Agency (EPA) (EPA, 1996b, 1996c, 1996d, and 1996e) published guidance documents which are discussed in more detail in the subsection entitled "Regulatory Policies and Financial Aspects".

The proceedings of several global conferences on urban stormwater management were also published in 1996. James (1996) edited a book overviewing 18 papers dealing with the modeling aspects of urban stormwater. These papers address a variety of topics including the use of the models themselves, data management including GIS, and the interrelationships between BMPs and water quality. The two-volume proceedings of RIVERTECH96 (Maxwell *et al.*, 1996) provided many papers related to urban-stormwater management. The proceedings from a national conference on SSOs provide an excellent information source on SSO problems generally and infiltration/inflow (I/I) problems in particular (EPA, 1996a). The three-volume proceedings of the 7th International Conference on Urban Storm Drainage, held in Hannover, Germany, provide an excellent source of information regarding new developments throughout the world (Sieker and Verworm, 1996).

Introduction

There has been a dramatic shift in the objectives associated with drainage design over the past decades. Burian, et al. (1999) presented a historical development of WWF management as part of the EPA-sponsored research effort on developing designs for the future (Pitt, et al. 1998a and forthcoming CRC book). An extensive annotated bibliography was prepared containing several thousand references tracing the history of drainage design and associated hydraulic and water quality issues. This bibliography (in both text form and in searchable ProCite formats) is available from the student organization AWRAs web page at the Department of Civil Engineering, University of Alabama.

An overview of the evolution of urban drainage, illustrating where the concept of a single design objective was replaced by the sustainability concept, was provided by Marsalek (2000a). The advances highlighted by Marsalek included improved (dynamic) control of urban drainage, source controls, integrated modeling, public and political support,

innovative university training, sustainable funding, adaptive water management, and investment in research and development (Marsalek 2000b). The paper also highlighted the future challenge of involving the public in the planning of drainage systems and protection of urban waters (Marsalek 2000c). Cigana and Couture (2000) advanced a list of key steps required to achieve a global approach to wet weather issues.

The overall challenges of urban drainage design and monitoring were discussed by both Marsalek and Kok (2000) and by Cigana (2000a). Cigana provided a discussion of the pollution resulting from stormwater runoff and combined sewer overflows (CSOs). The paper also reviewed the technologies available to control this pollution. Marsalek and Kok noted that the effectiveness of stormwater BMPs is not fully understood, and advocated future research into the design, operation and maintenance of these pollution control practices. Field (2000) presented an overview of the U.S. Environmental Protection Agency's (EPA's) urban watershed wet-weather flow (WWF) research program. U.S. EPA divided its 1996 research plan into five major areas: characterization and problem assessment, watershed management, toxic substances characterization and control, control technologies, and infrastructure improvement. Since that time, other organizations, notably the Water Environment Research Foundation (WERF), have reviewed WWF research programs and developed associated research needs reports, an effort that EPA endorses.

Sullivan and Field (1999) presented an overview of the Environmental Protection Agency's (EPA's) WWF research program, which was expanded in October 1995 with the establishment of the Urban Watershed Management Branch at Edison, New Jersey. Research priorities for 1999 were presented as well as efforts to collaborate with other government organizations and professional societies. Watershed management research at ORD's National Risk Management Research Laboratory (NRMRL) addressed the following question: what effective watershed management strategies were available and how do communities select the most appropriate subset from these to match specific watershed needs? (Borst and O'Shea, 1999). Heaney et al. (1999) presented the results of a national assessment of research needs in urban WWF management. Three interrelated categories of urban WWF management were discussed: CSO, SSO, and urban stormwater discharges.

Based on the past 30 years of research on urban WWF water quality, impact, modeling, control, and treatment demonstrated results, Field *et al.* (1997a) delineated a framework of future research directions for risk management of urban WWF.

chlorination and ultraviolet (UV) light irradiation (Perdek and Borst 2000a and 2000b). The USEPA has begun advocating that beach managers monitor marine water quality at bathing beaches using enterococcus, rather than the present approach which is usually use of a coliform indicator. Rex (2000) explored the potential impacts of changing from the fecal coliform indicator to the enterococcus indicator in three areas: (1) monitoring disinfection of wastewater, including CSO; (2) monitoring receiving water quality for the relationship between fecal coliform and enterococcus; and (3) monitoring changes in receiving water over time as improvements in CSO infrastructure are made. The analyses suggest that there is a potential impact on the ability of CSO facilities and wastewater treatment plants to meet new water quality standards.

Stinson et al. (1999) discussed high-rate disinfection technologies for CSO, including ultraviolet light irradiation, ozone, chlorination/dechlorination, chlorine dioxide, peracetic acid, and high-voltage electron beam irradiation. Discussions of the technologies included commercial availability and extent of use, state-of-development when not commercial, and where available, performance data and cost of either full-scale or pilot-scale installation. Also discussed was utility of increased mixing in concert with any disinfection technology. In 1996, the Vallejo Sanitation and Flood Control District (California) replaced an outdated chlorine gas disinfection system with a state-of-the art medium pressure UV system, in combination with a liquid chemical system for use as backup during wet weather periods. Tekippe et al. (1999) reviewed VSFCDD's three-year operating history, and presented a summary of startup and post-startup problems and their resulting solutions.

Four pilot units representing three different technologies were investigated at the Hartford, Conn. WPCP to determine the disinfection ability of UV on secondary effluent, CSO flows and combined secondary and CSO flows. Based on technical, operational and cost comparison of the pilot study, the disinfection of the secondary effluent using UV radiation and sodium hypochlorite (NaOCl) for CSO was recommended (Amirhor and Roach, 1998). Four alternative disinfection technologies pilots (UV, ozone, chlorine dioxide and chlorination/dechlorination) were evaluated for the Spring Creek Auxiliary Wastewater Pollution Control Plant in NYC. All technologies provided three to four log bacterial reductions and chlorine dioxide and chlorination/dechlorination were determined to be the most cost-effective technologies for the facility (Smith et al., 1998). A full-scale CSO demonstration in Columbus, Ga. evaluated side-by-side treatment methods for removing wet-weather contaminants and disinfection by sodium hypochlorite, chlorine dioxide, peracetic acid, and medium pressure UV (Boner et al., 1998). Stinson et al. (1998) presented the applicability of four high-rate disinfection technologies for treating CSO and SSO including ozone, UV, chlorine dioxide and high-voltage electron beam irradiation.

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