

# COMMUNITY AND WATERSHED BOUNDARIES SUMMIT COUNTY

## WATERSHEDS

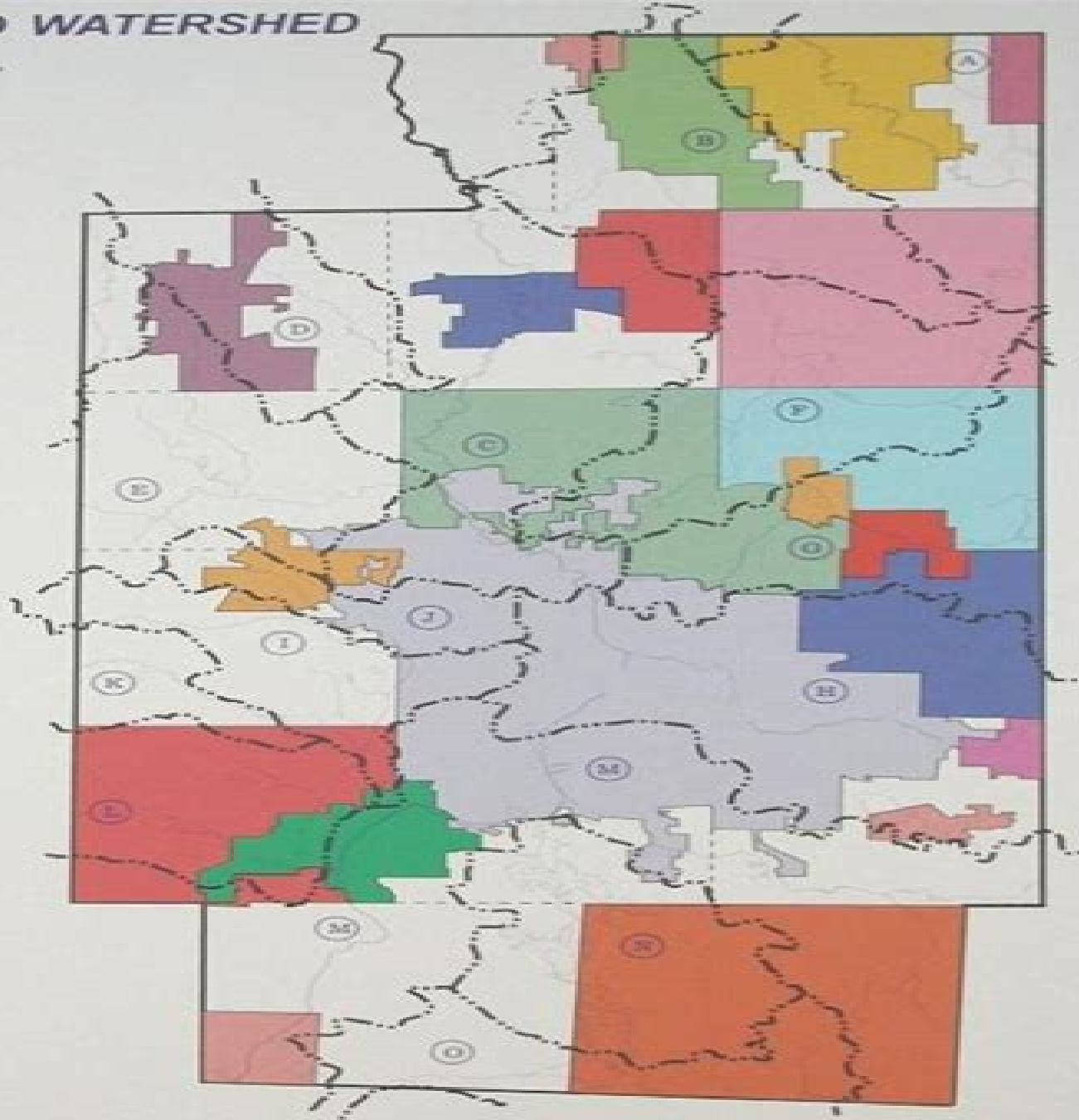
### CUYAHOGA RIVER BASIN

- (A) TINKERS CREEK
- (B) BRANDYWINE CREEK
- (C) CUYAHOGA VALLEY
- (D) FURNACE RUN
- (E) YELLOW CREEK
- (F) MUD BROOK
- (G) CUYAHOGA RIVER GORGE
- (H) LITTLE CUYAHOGA

### WATERSHED BOUNDARY LINES

### TUSCARAWAS RIVER BASIN

- (I) PIGEON CREEK
- (J) SCHOCALOG RUN
- (K) WOLF CREEK
- (L) VAN HYNING RUN AND HUDSON RUN
- (M) TUSCARAWAS RIVER
- (N) PORTAGE LAKES
- (O) NIMNILA CREEK



# Summit County Stormwater Management Manual

**SA Adler**



## **Summit County Stormwater Management Manual:**

*Pollutant Load Reductions for Total Maximum Daily Loads for Highways* Shahid A. Abbasi, Antti Koskelo, 2013 The intent of this synthesis is to collect information on the types of best management practices BMPs currently being used by state departments of transportation DOTs for meeting total maximum daily load TMDL water quality goals for stormwater runoff. The study approach includes two major components: interviews with 12 state DOTs to identify the existing state of the practice as it relates to TMDL implementation and a review of selected literature sources based on the criteria of highways TMDLs BMP performance and BMP cost to stay consistent with the goals of this synthesis. In particular, detailed quantitative BMP performance and cost data including life cycle costs are presented which builds significantly on previous studies of this nature. The impetus for this study was to help fill in a significant information gap on what types of BMPs are cost effective for specific use in linear highway applications for TMDL implementation purposes. Even with the advent of new low impact development green infrastructure practices, there remain a lack of effective BMP technologies and nonstructural controls e.g. source control and water quality credit trading for DOTs to implement for National Pollutant Discharge Elimination System permit compliance. This problem will only grow larger as new TMDLs are continually being developed and many DOTs are unprepared both technically and economically to cope with the additional requirements some states already have 60 TMDLs in which they are a named stakeholder. In an effort to help state DOTs with TMDL implementation, a simple user friendly BMP matrix toolbox with quantitative performance and where available life cycle cost data for various structural and nonstructural BMPs is presented. Some of the more common TMDL pollutants of concern: sediment, nutrients, fecal coliform, and metals are focused to maximize applicability for state DOTs. The performance and cost data were derived from numerous literature sources including the International Stormwater BMP Database which currently consists of more than 400 studies. This study is designed to help promote information exchange and technology transfer among DOTs for the mutual benefit of all highway managers faced with TMDL implementation. Conclusions from this synthesis are briefly highlighted here by general topic area with more details provided in chapters four and five. Performance for structural BMPs varied by pollutant and BMP type; however, certain trends did emerge from the literature review. In general, total suspended solids (TSS) appear to be relatively easy to treat with a broad range of BMPs including infiltration basins, sand filters, and bioretention. Nutrients, especially total nitrogen, can be more challenging to remove; nonetheless, some BMPs e.g. Austin sand filters for total nitrogen and infiltration basins for total phosphorus showed some promise. Fecal coliform data were limited; however, several BMPs were documented as being effective, including infiltration basins and infiltration trenches among others. Additional BMP performance data from the International Stormwater BMP Database support the view that media filters and retention ponds are consistently effective for a wide variety of TMDL pollutants including TSS, nutrients, fecal coliform, and total metals. This conclusion is based on statistics that show that median concentrations of these pollutants were statistically lower in effluent.

concentrations compared with influent concentrations based on a large number of studies from around the country although not all highway related Overall while these BMPs may be generally effective across a range of environmental conditions obtaining local site specific BMP monitoring data would be preferable for developing individual state DOT TMDL programs Performance data are also presented for nonstructural practices such as street sweeping catch basin cleaning and tree planting Quantitative performance data are generally lacking in the literature for these types of BMPs The limited information found suggests that street sweeping and catch basin cleaning may potentially be effective strategies for reducing TSS nutrients and metals provided they are performed frequently enough and the right technology is used in the case of sweeping Tree planting and stream restoration were documented as having some water quality benefits for nutrients Notably anti icing management has been successfully demonstrated in New Hampshire where a 20% reduction in chlorides was achieved by upgrading the technology on snow plows in response to a chloride TMDL In addition to performance life cycle cost data are presented where available However the cost information could not be adequately synthesized owing to differences in cost estimating approaches reporting units variability in costs among states and regions and inconsistencies in BMP naming conventions This also prevented a true cost benefit analysis However numerous sources of life cycle cost data as well as sources for individual cost elements such as design construction and operation and maintenance are provided where the interested reader may obtain more detailed information Given the differences in cost from one region to another the reader is encouraged to obtain cost data that are most relevant to their state Hyperlinks are provided in the BMP matrix toolbox where one may access examples of reports with detailed life cycle cost data and numerous additional cost sources are cited throughout the section on Highway Best Management Practices in chapter three There appear to be several common elements to developing an effective TMDL implementation program all of which have the potential to benefit DOTs by helping them receive a more equitable waste load allocation and developing a more manageable TMDL program The key elements are listed here although not all may apply to every DOT Increase awareness and training within the DOT on TMDL issues especially in cases where the DOT is named a stakeholder in only a few TMDLs or none Develop off site watershed partnerships and collaborate with other stakeholders to ensure cost effective approaches based on economies of scale and to promote information sharing and technology transfer among stakeholders Collaborate with the state regulatory agency during the TMDL development process especially early in the process Estimate pollutant loads generated within the DOT right of way either through water quality monitoring or modeling and predict potential load reductions from various BMP implementation scenarios Although some DOTs had relatively successful TMDL programs others clearly faced a number of challenges The primary challenges were limited financial resources a lack of effective BMP technologies for linear highway applications and difficulties in navigating complex regulatory environments where TMDL related requirements were either inconsistently enforced or restricted the flexibility of the DOT in implementing BMPs of their choice Further research is

suggested on the following topics long term adverse environmental and cultural aspects of BMP implementation new and innovative BMP technologies suitable for the highway environment more studies on BMP longevity life cycle costs and maintenance costs and standards and alternative and creative solutions to addressing emerging TMDLs for less traditional pollutants such as biological integrity sediment toxicity and organic compounds e g vehicle source control water quality trading Pages 1 2

**Monthly Catalog of United States Government Publications** ,1976 **Selected Water Resources Abstracts** ,1990 **Geomorphology and Land Management in a Changing Environment** Duncan F. M. McGregor,Donald A. Thompson,1995-06-20 Geomorphology and Land Management in a Changing Environment Edited by Duncan F M McGregor and Donald A Thompson Royal Holloway University of London UK Geomorphology and Land Management in a Changing Environment highlights the practical application of geography to environmental management through examination of the ways in which geomorphology is relevant to and contributes to proper management of land resources Increasingly effective land use is seen as dependent on the integration of geomorphological principles and practice within the decision making process The book elucidates the environmental effects of land management practices in terms of the geomorphological systems in which they take place and in the context of an environment subject to uncertainty and change It critically reviews the progress of applied geomorphology in addressing the issues of practical applicability of geomorphology and then focuses on four major themes within this interaction ground instability and land management the effect of land use on the hydrological and erosional response of geomorphological systems modelling geomorphological response to environmental change and geomorphological aspects of the management of environmental risk By integrating a wide range of case studies from the developed and the developing world the book offers a distinctive insight into the range and utility of geomorphological research and pointers for environmental planners and decision makers at all levels *Urban Stormwater Management Manual for Malaysia: Regulatory criteria and requirement* ,2000 Urban Stormwater Management Manual for Malaysia: Introduction to the manual ,2000 Selected Water Resources Abstracts ,1986

**Housing and Planning References** ,1980 Mergent Municipal & Government Manual ,2001 *Monthly Catalog of United States Government Publications* ,1976 **EPA Publications Bibliography** ,1978 **Nonpoint Source Pollution Control Workshop Technical Issues, July 25-28, 1989, Irvine, CA.** ,1989 **Public Works Manual** ,1995 Official Manual, State of Missouri Missouri. Office of the Secretary of State,1991 **Official Manual of the State of Missouri** Missouri. Office of the Secretary of State,1989 *Stormwater Management in Urban Collector Streams* ,1986

Congressional Record United States. Congress,2004 Oxbridge Directory of Newsletters ,1994 **Urban Forestry** Stephen C. Grado,2008 Pennsylvania Borough News ,2007

Uncover the mysteries within is enigmatic creation, **Summit County Stormwater Management Manual** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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