

State/Provincial/Territorial Stormwater Manuals

Alabama

Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas (2006)

Category: Construction, Erosion and Sediment Control Manual

Description: This manual is essentially an erosion and sediment control manual that includes a few references to post-construction stormwater management and a little bit of information about post-construction stormwater BMPs. It is a two volume manual. Volume 1 contains information about developing erosion and sediment control plans and selecting and designing BMPs. Site preparation, surface stabilization, runoff conveyance, sediment control and stream protection BMPs are outlined in profile sheets containing various diagrams and illustrations but limited technical detail. Post-construction stormwater management is addressed on a very limited basis – basic profile sheets on bioretention, porous pavement and stormwater detention basins are included in the manual. Better site design and low impact development are not addressed. Volume 2 of the manual contains information about the installation, maintenance and inspection of erosion and sediment control practices.

http://swcc.state.al.us/erosion_handbook.htm

“Best Of” Nominations

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Alaska

Alaska Storm Water Pollution Prevention Plan Guide (2005)

Category: Construction, Erosion and Sediment Control Manual

Description: A basic guide to preparing stormwater pollution prevention plans for construction sites that disturb more than one acre. Created as a guide to help contractors, consultants, and the public understand and comply with the requirements of the NPDES Storm Water Construction General Permit for small and large construction sites. Contains erosion and sediment control BMP information in an appendix in a basic fact sheet format.

http://www.dot.state.ak.us/stwddes/dcsenviron/assets/pdf/swppp/english/eng_guide_all.pdf

“Best Of” Nominations

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American Samoa

No Manual

Arizona

No Manual

Arkansas

No Manual

British Columbia

Stormwater Planning: A Guidebook for British Columbia (2002)

Category: Post-Construction, Policy and Procedures Manual

Description: A guidebook that presents a framework for implementing an integrated approach to stormwater management. Identifies problems associated with traditional stormwater management and provides the rationale for a change from traditional to integrated stormwater management. Outlines the scope and policy framework for integrated stormwater management, and presents methodology for developing an integrated stormwater management plan, including setting performance targets (including water quality, groundwater recharge, channel protection and flood control). Explains local government responsibility for stormwater management. Wonderful planning-level document. Basic information on site-level BMPs, but no design criteria.

<http://www.env.gov.bc.ca/epd/epdpa/mpp/stormwater/stormwater.html>

“Best Of” Nominations

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California

New Development and Redevelopment Stormwater Best Management Practice Handbook (2004)

Category: Post-Construction, BMP Handbook

Description: Provides general guidance for selecting and implementing stormwater BMPs to reduce pollutants in runoff from new developments and redevelopments. Also provides guidance on developing project-specific stormwater management plans. Good fact sheet style approach to presenting key information relating to BMPs, including useful design guidelines. Contains information on better site design. Manual defers to local requirements and design criteria, so it can only be used as a general BMP guidance manual and not relied upon as an engineering design manual.

<http://www.cabmphandbooks.com/Development.asp>

“Best Of” Nominations

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Construction Stormwater Best Management Practice Handbook (2004)

Category: Construction, Erosion and Sediment Control Manual

Description: An erosion and sediment control manual.

<http://www.cabmphandbooks.com/Construction.asp>

“Best Of” Nominations

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Colorado

No Manual

Connecticut

Connecticut Stormwater Quality Manual (2004)

Category: Post-Construction, Stormwater Manual

Description: One of the best non-CWP produced stormwater manuals. The manual has no independent regulatory authority but it establishes guidelines that provide the technical basis for a comprehensive, statewide stormwater quality management strategy. Contains a comprehensive discussion of federal, state and local stormwater management regulations. Pretty good general discussion on low impact development/better site design. General discussion of pollution prevention practices. Very good unified design criteria (includes water quality, groundwater recharge, channel protection and flood control). Includes criteria for sensitive coastal waters and wetlands (runoff capture criteria). Good chapter on stormwater management plan preparation. Pretty good BMP selection matrices. Contains a chapter on stormwater retrofits. Pretty good landscaping appendix, but includes only ponds and wetlands.

<http://www.ct.gov/dep/cwp/view.asp?a=2721&q=325704>

“Best Of” Nominations

- Channel protection
- Submittal requirements (policy)
- BMP matrices
- Wetland protection
- Hotspot management and pollution prevention

Connecticut Guidelines for Soil Erosion and Sediment Control (2002)

Category: Construction, Erosion and Sediment Control Manual

Description:

Not available online

http://www.ct.gov/dep/cwp/view.asp?a=2720&q=325660&depNav_GID=1654

“Best Of” Nominations:

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Delaware

Green Technology: The Delaware Urban Runoff Management Approach (2004)

Category: Post-Construction, Stormwater Manual

Description: A technical manual aimed at addressing urban runoff problems specifically through the use of smaller nonstructural Best Management Practices (BMPs) to manage runoff as close as possible to its source. The focus of the manual is acknowledging the impacts of urban runoff and addressing those impacts through the use of green technology BMPs, which include both better site design techniques and low impact development practices. This manual provides information on a progressive approach to stormwater management and contains information about stormwater sizing criteria to address water quality, stream bank protection and flood protection. The BMPs addressed within the manual include: infiltration, filter strip, bioretention, and biofiltration. A fair level of textual design guidance is included. No mention is made of incentives or credits for stormwater controls.

<http://www.swc.dnrec.delaware.gov/SedimentStormwater.htm>

“Best Of” Nominations:

- Low impact development

Conservation Design for Stormwater Management (1997)

Category:

Description:

Need a Review

“Best Of” Nominations:

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Delaware Erosion and Sediment Control Handbook (2003)

Category: Construction, Erosion and Sediment Control Manual

Description: A very fine example of an erosion and sediment control manual.

<http://www.swc.dnrec.delaware.gov/SedimentStormwater.htm>

“Best Of” Nominations:

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District of Columbia

Stormwater Management Guidebook (2003)

Category: Post-Construction, Stormwater Manual

Description: Very good example of a stormwater manual that contains some elements of a local policy manual. The design portion of the manual presents the minimum criteria for the planning, design and construction of stormwater BMPs in order to comply with DCMR 21.5. Basic unified design criteria (includes water quality and flood control). Includes a nice summary of BMP design/performance criteria, with a great amount of detail regarding stormwater filtration practices. Nice BMP selection chapter that includes pretty good BMP selection matrices. Pretty good chapter that details the stormwater management plan submittal,

review and approval process. Nice appendix on acceptable H&H models and methods.

Not available online

“Best Of” Nominations

- Filtration
- Submittal requirements (policy)
- Penalties (policy)
- Review pathway

Florida

Florida Development Manual: A Guide to Sound Land and Water Management (1988)

Category: Construction/Post-Construction, BMP Handbook

This is a two volume manual that provides general guidance for selecting and implementing stormwater BMPs. Volume 1, which is out of print (and not available on-line), contains information on site planning, erosion and sediment control principals, principles of stormwater management, on-site wastewater treatment and disposal, and model ordinances to protect natural resources.

Volume 2 (which is available on-line) presents detailed information (which may be out-of-date) on erosion and sediment control BMPs, stormwater BMPs, and pollution prevention BMPs. Use as a general guidance document only.

<http://www.dep.state.fl.us/water/nonpoint/pubs.htm#Best%20Management%20Practices>

“Best Of” Nominations

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Georgia

Georgia Stormwater Management Manual (2001)

Category: Post-Construction, Stormwater Manual

Description: Very comprehensive and very well-organized design manual. The Manual itself has no independent regulatory authority, but can be adopted as a regulation through local ordinance. Contains a fairly comprehensive discussion of federal, state and local stormwater management regulations. Very nice chapters on developing and implementing local stormwater management programs. Good discussion of the need for watershed-based planning and on low impact development/better site design. Very good and complete unified design criteria (includes water quality, groundwater recharge, channel protection and flood control). Discusses stormwater credits for better site design. Includes detailed hydraulic and hydrologic guidance for design of stormwater infrastructure. Very good stormwater BMP design criteria and design examples. Includes a section on stormwater retrofitting. Good general discussion of stormwater management plan submittal requirements. Good example

stormwater maintenance agreement. Nice appendix on landscaping. Volume 1 of the manual contains additional stormwater management policy guidance.

<http://www.georgiastormwater.com/>

“Best Of” Nominations

- Design criteria
- Design examples
- Landscaping
- Hydrologic and hydraulic guidance
- Stormwater credits
- Submittal requirements (policy)

Manual for Erosion and Sediment Control in Georgia (2000)

Category: Construction, Erosion and Sediment Control Manual

Description: An erosion and sediment control manual.

http://gaswcc.georgia.gov/00/article/0,2086,28110777_28115483_48960822,00.html

“Best Of” Nominations

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Guam

Northern Mariana Islands and Guam Stormwater Management Manual (Draft - 2006)

Category: Post-Construction, Stormwater Manual

Description: A very fine example of a comprehensive stormwater manual. Well-designed and well-organized. Manual provides designers a general overview on local stormwater issues and how to size and design BMPs to comply with recommended stormwater performance standards. Great chapter on the need for stormwater management, which includes a comprehensive discussion about the islands’ sensitive groundwater supplies and the need for groundwater recharge. Comprehensive and up-to-date unified sizing criteria (water quality, groundwater recharge, channel protection, flood control) along with nice example calculations. Excellent updated stormwater management practice design criteria. Nice chapter on BMP selection, which contains excellent BMP selection matrices. Nice introductory chapter on better site design. Has great design examples and an excellent landscaping chapter. Volume 1 of the manual contains additional stormwater management policy guidance.

<http://deq.gov.mp/article.aspx?seclD=6&artID=55>

“Best Of” Nominations

- BMP selection matrices
- BMP performance/design criteria

- Landscaping
- Design examples
- Sensitive/critical area criteria (groundwater recharge)

Hawaii

No Manual

Idaho

Catalog of BMPs for Idaho Cities and Counties (2005)

Category: Construction/Post-Construction, BMP Handbook

Description: A handbook that provides technical guidance for the selection and design of stormwater best management practices (BMPs). Also provides guidance on developing project-specific stormwater management plans. Fact sheet style approach to presenting general information relating to erosion and sediment control and stormwater BMPs. Also contains some information on better site design and low impact development.

http://www.deq.state.id.us/water/data_reports/storm_water/catalog/index.cfm

“Best Of” Nominations

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Illinois

Illinois Urban Manual (2002)

Category: Construction/Post-Construction, BMP Handbook

Description: This is a general BMP handbook that sets no policy, rules or regulations. Contains a fact sheet style approach to presenting detailed information relating to erosion and sediment control and stormwater BMPs. Includes some design criteria, as well as standard drawings and detailed information on BMP construction and materials specifications. Manual is very large, does not contain much design guidance and it is not well organized, which does not make it very useful as a stormwater manual.

<http://www.il.nrcs.usda.gov/technical/engineer/urban/contents.html>

“Best Of” Nominations

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Indiana

Indiana Stormwater Quality Manual (Under Development)

Category:

Description:

Not available online

“Best Of” Nominations

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Iowa

Iowa Stormwater Management Manual (Draft - 2007)

Category: Post-Construction, Stormwater Manual

Description: The Iowa Stormwater Management Manual is a lengthy (and growing) document intended to address the impacts of urban development on both the quality and quantity of stormwater runoff. The manual provides a set of stormwater management criteria that is very similar to those that appear in many of the manuals written by CWP. A section on a set of unified stormwater sizing criteria is included and addresses water quality, groundwater recharge, channel protection, and flood control. The manual provides extensive guidance on hydrology and hydraulic design (e.g. storm sewer, culvert and open channel design). The manual discusses the benefits of better site design and low impact development, but lacks any information about their use (e.g. no design guidance or credit/incentive system). A multitude of structural stormwater BMPs are detailed in a series of design fact sheets, that contain design guidelines very similar to those contained in CWP-produced manuals, particularly the Georgia Stormwater Management Manual. Many sections of the manual are still under development.

<http://www.ctre.iastate.edu/PUBS/stormwater/index.cfm>

“Best Of” Nominations:

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Kansas

Protecting Water Quality: A Field Guide to Erosion, Sediment and Stormwater Best Management Practices for Development Sites in Missouri and Kansas (1999)

Category: Construction, Erosion and Sediment Control Manual

Description: This manual is essentially an erosion and sediment control manual that includes a few references to post-construction stormwater management and a little bit of information about post-construction stormwater BMPs. It contains information about developing erosion and sediment control plans, selecting and designing sediment and erosion controls and installing, maintaining and inspecting them. Site preparation, surface stabilization, runoff control, runoff conveyance, sediment control and stream protection BMPs are outlined in profile sheets containing various diagrams and illustrations but limited technical detail. Post-construction stormwater management is addressed on a very limited basis – basic profile sheets on stormwater detention basins, infiltration trenches, infiltration basins, porous pavement and constructed wetlands are included.

<http://www.dnr.mo.gov/env/wpp/wpcp-guide.htm>

“Best Of” Nominations

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Kentucky

Best Management Practices (BMPs) for Controlling Erosion, Sediment, and Pollutant Runoff from Construction Sites: Planning and Technical Specifications Manual (2006)

Category: Construction, Erosion and Sediment Control Manual

Description: A good example of an erosion and sediment control manual.

<http://www.water.ky.gov/permitting/wastewaterpermitting/KPDES/storm/>

“Best Of” Nominations:

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Louisiana

No Manual

Maine

Stormwater Management for Maine (2006)

Category: Post-Construction, Stormwater Manual

Description: Average stormwater manual that does not appear to have local authority for stormwater design. Manual was developed to provide guidance in selecting appropriate BMPs to control stormwater from development in accordance with Maine DEPs Stormwater Management regulations, Chapter 500. Includes pretty good design criteria (water quality, cooling, channel protection and flood protection). Basic chapter on LID that places an emphasis on the use of LID and explains difference between LID and Smart Growth (Volume I, Section 3). Nice appendix on rain garden design (Volume I, Appendix A). Contains a chapter addressing the State’s phosphorus loading limits, which apply to sensitive lake watersheds. Includes basic hydrologic guidance for design of stormwater infrastructure.

<http://www.maine.gov/dep/blwq/docstand/stormwater/stormwaterbmps/index.htm>

“Best Of” Nominations

- Sensitive waters (lakes, trout streams)

Maryland

Maryland Stormwater Design Manual (2000)

Category: Post-Construction, Stormwater Manual

Description: Very comprehensive and very well-organized stormwater manual. One of the finest examples of a comprehensive stormwater manual. Has regulatory authority on all developments disturbing 5,000 square feet or more. Manual is relatively brief and easy to navigate. Complete unified design criteria (includes water quality, groundwater recharge, channel protection and flood control) along with good examples illustrating how to determine each criterion.

Includes good information on designating stormwater hotspots. Very good stormwater BMP design criteria and design examples. Nice description of maintenance required for each practice. Includes special criteria for sensitive waters and critical areas. Nice chapter on BMP selection and nice BMP selection matrices. Includes stormwater credits for better site design. Very good landscaping appendix.

http://www.mde.state.md.us/Programs/WaterPrograms/SedimentandStormwater/stormwater_design/index.asp

“Best Of” Nominations

- Stormwater credits
- BMP selection matrices
- BMP performance/design criteria
- Landscaping
- Operation and maintenance
- Design examples
- Sensitive/critical area criteria
- Stormwater hotspot identification

Massachusetts

Stormwater Management Handbook (1997)

Category: Post-Construction, Stormwater Manual

Description: A two volume stormwater manual that contains both a policy element and a technical design element. It is an above average stormwater manual that has local authority when specific projects are governed by the Wetlands Protection Act. Includes criteria for water quality, groundwater recharge and flood control. Nice discussion of policy (although it is probably too lengthy), which clearly explains the water quality standards and how they are to be applied. Generally promotes non-structural BMPs, but does not offer credits (except for street sweeping). Presents basic information on structural BMPs in a fact sheet format with decent design criteria. Briefly discusses critical/sensitive areas. Contains decent guidance for innovative/proprietary BMPs.

<http://www.mass.gov/dep/water/laws/policies.htm#storm>

“Best Of” Nominations

- Propriety BMPs (policy)

Michigan

Guidebook of Best Management Practices for Michigan Watersheds (1998)

Category: Construction/Post-Construction, BMP Handbook

Description: This is a manual that provides general guidance for selecting and implementing stormwater BMPs. Includes a general discussion of the need for stormwater management and watershed-based planning provides a guide for the development of site plans. Discusses local stormwater management plan

development (includes example ordinances) and applicable regulatory programs. Presents detailed information (which may be out-of-date) on a wide variety of erosion and sediment control BMPs, stormwater BMPs, and pollution prevention BMPs. Includes a nice chapter on calculating erosion using the universal soil loss equation. For use as a general guidance document only.

<http://www.deq.state.mi.us/documents/deq-swq-nps-WholeGuidebook.pdf>

“Best Of” Nominations

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Minnesota

Minnesota Stormwater Manual (2006)

Category: Post-Construction, Stormwater Manual

Description: A very comprehensive and up-to-date manual for the upper midwest. A fine example of a stormwater design manual. Does not have local authority on specific projects. The Manual is intended as a guidance document and does not establish new regulatory requirements. The manual itself strongly recommends that regulators use this Manual only as a guidance manual. Nice introductory chapters on better site design. Contains a fairly comprehensive discussion of federal, state and local stormwater management regulations. Nice chapters on BMP selection with pretty good BMP selection matrices. Contains unified sizing criteria (water quality, groundwater recharge, channel protection, and flood control), a simplified stormwater credit system, BMP specifications for cold-climate conditions, and special stormwater criteria to protect trout streams, sensitive lakes, wetlands and drinking water sources. Very good chapter on hydrology, hydraulic and water quality methodology and models. Comprehensive chapter on cold climate modifications. Very nice chapter on applying stormwater credits to development sites. Detailed and up-to-date stormwater BMP design criteria. Includes good information on designating stormwater hotspots. Very good BMP design examples. Good appendices on landscaping and development site pollutant loading calculation.

“Best Of” Nominations

- Cold climate
- Sensitive waters (lakes, trout streams)
- Design examples
- Hydrologic and hydraulic models
- Stormwater BMP design/performance criteria
- Stormwater credits
- Karst topography
- Landscaping

Mississippi

Planning and Design Manual for the Control of Erosion, Sediment, and Stormwater (1994)

Category: Construction, Erosion and Sediment Control Manual

Description: This manual is essentially an erosion and sediment control manual that includes a few references to post-construction stormwater management and a little bit of information about post-construction stormwater BMPs. It contains information about developing erosion and sediment control plans and an overview of erosion and sediment control practices. More detailed information is presented in a basic profile sheet format. Post-construction stormwater management is addressed on a very limited basis – basic profile sheets on several post-construction BMPs (e.g. wetlands, detention basins, filtration systems, grass swales) are included.

<http://www.abe.msstate.edu/csd/p-dm/>

“Best Of” Nominations

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Missouri

Protecting Water Quality: A Field Guide to Erosion, Sediment and Stormwater Best Management Practices for Development Sites in Missouri and Kansas (1999)

Category: Construction, Erosion and Sediment Control Manual

Description: This manual is essentially an erosion and sediment control manual that includes a few references to post-construction stormwater management and a little bit of information about post-construction stormwater BMPs. It contains information about developing erosion and sediment control plans, selecting and designing sediment and erosion controls and installing, maintaining and inspecting them. Site preparation, surface stabilization, runoff control, runoff conveyance, sediment control and stream protection BMPs are outlined in profile sheets containing various diagrams and illustrations but limited technical detail. Post-construction stormwater management is addressed on a very limited basis – basic profile sheets on stormwater detention basins, infiltration trenches, infiltration basins, porous pavement and constructed wetlands are included.

<http://www.dnr.mo.gov/env/wpp/wpcp-guide.htm>

“Best Of” Nominations

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Montana

No Manual

Nebraska

No Manual

Nevada

Handbook of Best Management Practices (1994)

Category: Construction, BMP Handbook

Description: Primarily a construction stormwater BMP handbook that presents basic information about erosion and sediment controls in a simple fact sheet format. The manual also includes fact sheets about BMPs that address a variety of other development types including mining, agriculture and forestry, but provides very little information about post-construction stormwater management (a section on infiltration systems is provided).

<http://ndep.nv.gov/bwqp/bmp05.htm>

“Best Of” Nominations

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New Hampshire

Innovative Stormwater Treatment Technologies Best Management Practices Manual (2002)

Category: Post-Construction, BMP Handbook

Description: Provides information about innovative (e.g. proprietary) stormwater treatment technologies. In addition to providing information about how each product functions, this manual also provides guidance on product installation and operation and maintenance, as well as information about the relative cost of each of the practices. The manual also offers decision-making criteria to help in determining what proprietary practices are most applicable to specific site conditions.

<http://www.des.state.nh.us/wmb/was/manual/>

“Best Of” Nominations

- Experimental/Proprietary BMPs

Stormwater Management and Erosion and Sediment Control for Urban and Developing Areas in New Hampshire

Category:

Description:

Need a description

Not available online

“Best Of” Nominations

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Best Management Practices for Urban Stormwater Runoff

Category:

Description:

Need a description

Not available online

“Best Of” Nominations

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New Jersey

New Jersey Stormwater Best Management Practices Manual (2004)

Category: Post-Construction, Stormwater Manual

Description: A pretty good example of a comprehensive stormwater manual. The manual has no independent regulatory authority, although it provides guidance in meeting the state’s Stormwater Management rules contained in the NJAC.

Lacks an introductory chapter on the purpose of the manual and its regulatory authority. Good introductory chapters on the benefits of better site design and watershed-based planning. Good information on municipal stormwater management. Design criteria includes water quality, groundwater recharge and flood control. Has strong focus on infiltration and recharge with design tools to estimate volume control through use of infiltration and other low impact development type practices. Pretty good stormwater management practice design criteria. Very good chapter on landscaping. Brief passage on stormwater retrofits.

http://www.njstormwater.org/bmp_manual2.htm

“Best Of” Nominations

- Groundwater recharge
- Low impact development/better site design
- Landscaping
- Proprietary/Innovative BMPs

New Mexico

No Manual

New York

New York State Stormwater Management Design Manual (2003)

Category: Post-Construction, Stormwater Manual

Description: Good example of a comprehensive stormwater manual. Well organized and easy to get information from. The manual is designed to provide recommendations for the design of stormwater management practices so that they may comply with state stormwater performance standards, which include the state’s NPDES permit program. Pretty good chapter on state stormwater permitting process. Design criteria include water quality, channel protection and flood control. Good discussion of downstream analysis and stormwater hotspots. Very well organized stormwater management practice design criteria. Nice chapter on BMP selection, which includes BMP selection matrices. Good landscaping and cold climate modification appendices. Nice appendix on

channel protection and geomorphic assessments. Pretty good design examples. Appendix on site-based pollutant load calculations.

<http://www.dec.state.ny.us/website/dow/toolbox/swmanual/index.html>

“Best Of” Nominations

- Cold climate
- Landscaping
- Design examples
- Design criteria
- BMP matrices
- Channel protection

North Carolina

Stormwater Best Management Practices Manual (2007)

Category: Post-Construction, Stormwater Manual

Description: This stormwater manual has no independent regulatory authority. It is intended to supplement the rules contained in the NCAC by explaining the stormwater BMPs that will be allowed, their design criteria, and their assumed pollutant removal efficiencies. Contains a pretty good discussion of the need for watershed-based planning. Discusses the unifying criteria (including runoff capture (groundwater recharge), water quality, and flood control), but generally presents them as guidelines (it defers to local regulations) and does not present them in any detail. Presents runoff capture criterion as a wetland protection measure (achieve baseflow) and contains some planning information about designing sites to protect wetlands. Contains some information on retrofitting. Pretty good design criteria (includes design specifications) on BMPs presented in a fact sheet format. Also contains limited discussions on the design of miscellaneous BMP components (e.g. inlet and outlet structures, embankments). Nice discussion of operation and maintenance requirements. Good landscaping appendix. Good example maintenance agreement. Brief discussion of site-based pollutant load calculations.

http://h2o.enr.state.nc.us/su/bmp_manual.htm

“Best Of” Nominations

- Landscaping
- Operation and maintenance
- Propriety/Innovative BMPs
- Wetland protection

North Dakota

A Guide to Temporary Erosion Control Measures for Contractors, Designers and Inspectors

Handbook of Best Management Practices (1994)

Category: Construction, BMP Handbook

Description: A handbook that provides basic technical guidance on construction stormwater best management practices (BMPs).

<http://www.health.state.nd.us/WQ/WasteWater/pubs/WasteWaterPublications.htm>

“Best Of” Nominations

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Northern Mariana Islands

Northern Mariana Islands and Guam Stormwater Management Manual (Draft - 2006)

Category: Post-Construction, Stormwater Manual

Description: A very fine example of a comprehensive stormwater manual. Well-designed and well-organized. Manual provides designers a general overview on local stormwater issues and how to size and design BMPs to comply with recommended stormwater performance standards. Great chapter on the need for stormwater management, which includes a comprehensive discussion about the islands’ sensitive groundwater supplies and the need for groundwater recharge. Comprehensive and up-to-date unified sizing criteria (water quality, groundwater recharge, channel protection, flood control) along with nice example calculations. Excellent updated stormwater management practice design criteria. Nice chapter on BMP selection, which contains excellent BMP selection matrices. Nice introductory chapter on better site design. Has great design examples and an excellent landscaping chapter. Volume 1 of the manual contains additional stormwater management policy guidance.

<http://deq.gov.mp/article.aspx?secID=6&artID=55>

“Best Of” Nominations

- BMP selection matrices
- BMP performance/design criteria
- Landscaping
- Design examples
- Sensitive/critical area criteria (groundwater recharge)

Ohio

Rainwater and Land Development Manual (2006)

Category: Construction/Post-Construction, BMP Handbook

Description: This manual defines Ohio’s standards and specifications for stormwater practices implemented during land development. It is mostly a BMP handbook, but contains some basic elements of a stormwater manual. Several of the structural post-construction BMP profile sheets do provide sizing guidelines. The rest of the manual contains profile sheets that present standards and specifications for a variety of construction and post-construction BMPs in the

format of a BMP handbook. Appendices offer further information regarding stormwater design examples, permits, helpful contacts, and soils.

<http://www.dnr.state.oh.us/soilandwater/water/rainwater/default/tabid/9186/Default.aspx>

“Best Of” Nominations

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Oklahoma

No Manual

Ontario

Stormwater Management Design and Planning Manual (2003)

Category: Post-Construction, Stormwater Manual

Description: A comprehensive design manual, but does not appear to have legal authority on local design projects. Manual is used as a baseline reference document in the review of stormwater management applications for approval under the Ontario Water Resources Act. Contains updated and fairly comprehensive channel protection criteria. Other design criteria include water quality and flood protection. Good chapter on infill development and redevelopment. Defines different design criteria for more sensitive/critical streams including information on cooling stormwater runoff. Pretty good information on site-level practices and on structural BMPs. Offers credits for lot-level and conveyance technologies (water quality and channel protection volume reduction) if supportive modeling is provided. Contains information on retrofitting. Includes example calculations and BMP designs. Nice planning chapter and appendix that discusses the need for watershed-based planning and better site design. Nice chapter on operation and maintenance.

<http://www.ene.gov.on.ca/envision/gp/4329eindex.htm>

“Best Of” Nominations

- Cold climate
- Sensitive habitats
- Stormwater credits
- Landscaping
- Channel protection
- BMP performance criteria
- Operation and maintenance

Oregon

Biofilters for Stormwater Discharge Pollution Removal (2003)

Category: Post-Construction, BMP Handbook

Description: Contains fairly detailed design, construction and maintenance information about bioswales (e.g. vegetated swales) and stormwater wetlands.

Also provides illustrations of example bioswales and wetlands located across the state.

<http://www.deq.state.or.us/wq/stormwater/nwrinfo.htm>

“Best Of” Nominations

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Best Management Practices for Stormwater Discharges Associated with Construction Activities (2006)

Category: Construction, BMP Handbook

Description: Provides information about erosion and sediment controls that can be used at development sites in a basic fact sheet format.

<http://www.deq.state.or.us/wq/stormwater/nwrinfo.htm>

“Best Of” Nominations

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Best Management Practices for Stormwater Discharges Associated with Industrial Activities (2001)

Category: Pollution Prevention, BMP Handbook

Description: Provides information about pollution prevention practices that can be used at industrial hotspot facilities in a basic fact sheet format.

<http://www.deq.state.or.us/wq/stormwater/nwrinfo.htm>

“Best Of” Nominations

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Guidance Document for Preparation of the NPDES Stormwater Pollution Control Plan (1997)

Category: Pollution Prevention, Stormwater Pollution Prevention Plan Guide

Description: Provides guidance on the preparation stormwater pollution prevention plans for industrial hotspot facilities.

<http://www.deq.state.or.us/wq/stormwater/nwrinfo.htm>

“Best Of” Nominations

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Pennsylvania

Stormwater Best Management Practices Manual (2006)

Category: Post-Construction, Stormwater Manual

Description: Average stormwater design manual. Manual is fairly comprehensive, although it is not organized particularly well. Pennsylvania laws

and regulations do not directly manage stormwater at the state level, although some state level management occurs through programs such as NPDES Phase II permitting. Language, especially that contained in Chapter 3 regarding recommended control guidelines can be confusing. Recommended control guidelines include volume control, peak rate control and water quality control. A variety of recommendations are provided on how to meet these control guidelines. Provides a distinction between preventive and mitigative BMP approaches. Good non-structural BMP information. Good list of structural BMPs, which contain a lot of information, but are not the easiest to use. Chapter 6 also provides good references evaluating propriety BMPs.

<http://164.156.71.80/WXOD.aspx?fs=2087d8407c0e00008000071900000719&ft=1>

“Best Of” Nominations

- Porous Pavement
- Karst
- Site-based practices

Puerto Rico

No Manual (?)

Rhode Island

Rhode Island Stormwater Design & Installation Standards Manual (Draft - 2006)

Category: Post-Construction, Stormwater Manual

Description: This is a good example of a modern stormwater manual. Although many of the chapters are still under development, it appears to be consistent with many of the other stormwater manuals authored by CWP. When completed, the manual will outline the need for stormwater management and describe approaches for preventing and mitigating stormwater impacts. It is not clear whether this description will include a set of clear and concise stormwater management objectives. The rest of the manual will provide design guidance on better site design, low impact development and pollution prevention practices as well as selection and design guidance for more traditional structural BMPs. The manual will include several of the unified stormwater sizing criteria (water quality, groundwater recharge, overbank and extreme flood), but it does not appear as if the manual will provide a credit system for the use of BSD and LID practices. The manual will also contain a chapter on stormwater retrofitting.

<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/>

“Best Of” Nominations:

- Better Site Design
- Low Impact Development
- Pollution Prevention

South Carolina

South Carolina Stormwater Management and Sediment Control Handbook for Land Disturbing Activities (2003)

Category: Construction, Erosion and Sediment Control Manual

Description: This is a very basic erosion and sediment control manual that provides guidance in preparing stormwater pollution prevention plans for construction sites. Contains basic erosion and sediment control BMP information (e.g. summary tables and sketches) in an appendix. Includes a few references to post-construction stormwater management and a little bit of information about post-construction stormwater BMPs (e.g. summary tables and sketches) in an appendix.

<http://www.cicacenter.org/pdf/SCSedSWCHandbook.pdf>

“Best Of” Nominations:

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South Carolina DHEC Stormwater Management BMP Field Manual (2005)

Category: Construction/Post-Construction, BMP Handbook

Description: This is a very basic BMP handbook that presents information about erosion and sediment controls (mostly) and post-construction BMPs. Profile sheets presented in the manual contain technical information, photographs and guidance on installation as well as inspection and maintenance.

http://www.scdhec.gov/environment/ocrm/pubs/docs/SW/BMP_Handbook/BMP_Handbook.pdf

“Best Of” Nominations:

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South Dakota

No Manual

Tennessee

Erosion and Sediment Control Handbook (2002)

Category: Construction, BMP Handbook

Description: A handbook that provides basic technical guidance on construction stormwater best management practices (BMPs) in a fact sheet format.

http://www.state.tn.us/environment/wpc/sed_ero_controlhandbook

“Best Of” Nominations

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Texas

No Manual

Utah

No Manual

Vermont

Vermont Stormwater Management Manual

Category: Post-Construction, Stormwater Manual

Description: Very comprehensive and very well-organized stormwater design manual. One of the finest stormwater design manuals. Appears to have regulatory authority on local development, as it complements the state's stormwater regulations. Complete unified design criteria (includes water quality, groundwater recharge, channel protection and flood control) along with good examples illustrating how to determine each criterion. Includes good information on designating stormwater hotspots and evaluating downstream impacts. Very good stormwater BMP design criteria and design examples. Manual contains newer criteria such as groundwater recharge and allows for innovation with use of credits, which is clearly explained in a nice chapter on stormwater management credits. Good design examples are provided. Includes nice cold climate modifications. Nice appendix on BMP selection, which contains BMP selection matrices. Excellent appendix on landscaping. Nice appendix on channel protection and geomorphic assessments.

"Best Of" Nominations

- Stormwater credits
- Downstream impacts analysis
- Stormwater hotspot identification
- BMP selection matrices
- Landscaping
- Cold climate
- Design examples

Virgin Islands

No Manual

Virginia

Virginia Stormwater Management Handbook (1999)

Category: Post-Construction, Stormwater Manual

Description: Average stormwater manual. Manual establishes guidance on how to meet minimum design standards identified in the State stormwater law. Lengthy and not very well organized, which makes it slightly more difficult to use. Unified design criteria specified in the state stormwater regulations includes water quality, stream channel erosion and flood control. Decent chapters on BMP selection and watershed based planning. Contains good BMP design/performance criteria in a fact sheet format, although this section is not very well organized. Nice fact sheets containing information on proprietary BMPs. Nice appendix containing example checklists. Good chapters containing

information on hydrologic and hydraulic modeling (which includes a discussion on karst) and on BMP design (with examples).

http://www.dcr.virginia.gov/soil_&_water/stormwat.shtml#pubs

“Best Of” Nominations

- Innovative/proprietary BMPs
- Checklists
- Karst topography
- Design examples
- Hydrology and hydraulics

Washington

Stormwater Management Manual for Eastern Washington (2004)

Category: Post-Construction, Stormwater Manual

Description: An above-average comprehensive stormwater manual. Similar in content to the Western Washington Manual (not as detailed on some subjects), but is better organized and slightly easier to use. The manual does not have any independent regulatory authority. Instead, it is a guidance document that should assist users in meeting existing stormwater regulations, including the state Water Pollution Control Act. Brief discussion of federal, state and local stormwater management regulations. Nice discussion of core elements of stormwater management plans, which includes criteria for redevelopment. Comprehensive chapter on site plan development. Nice chapters on hydrologic design and BMP design. Good discussion of BMP selection. Contains fairly comprehensive BMP design/performance criteria. Includes lists of BMPs that meet certain goals in the form of BMP menus.

<http://www.ecy.wa.gov/biblio/0410076.html>

“Best Of” Nominations

- Cold climate
- Arid climate

Stormwater Management Manual for Western Washington (2005)

Category: Post-Construction, Stormwater Manual

Description: An above-average comprehensive stormwater manual. Very comprehensive manual that can be overwhelming at times, but has good content and guidance once you find your way around. The manual does not have any independent regulatory authority. Instead, it is a guidance document that should assist users in meeting existing stormwater regulations, including the state Water Pollution Control Act. Good discussion of federal, state and local stormwater management regulations. Nice discussion of core elements of stormwater management plans, which includes criteria for new development and wetlands protection. Comprehensive chapter on site plan development. Nice chapters on hydrologic design and BMP design. Good discussion of BMP selection. Includes

credits for site-level stormwater practices. Contains fairly comprehensive BMP design/performance criteria. BMPs included in the manual include pollution prevention, erosion and sediment control and stormwater BMPs. Nice discussion of hydrologic and hydraulic models (WWHM). Includes lists of BMPs that meet certain goals in the form of BMP menus.

<http://www.ecy.wa.gov/programs/wq/stormwater/manual.html>

“Best Of” Nominations

- H&H Models
- Site-level practices
- Channel protection
- Stormwater credits

West Virginia

West Virginia Erosion and Sediment Control Best Management Practice Manual (Draft - 2006)

Category: Construction, Erosion and Sediment Control Manual

Description: An erosion and sediment control manual.

<http://www.wvdep.org/dwwm/stormwater/BMP.htm>

“Best Of” Nominations

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Wisconsin

Wisconsin Stormwater Manual (2000)

Category: Post-Construction, Stormwater Manual

Description: This is a limited manual with excellent detailed design guidance about a few good BMPs. Stormwater management criteria, including peak control (2-year, 10-year and 100-year) and water quality control, and BMP screening criteria are presented in Chapter 1 but the manual fails to connect the dots regarding BMPs and their ability to meet the recommended stormwater management criteria. Chapter 2 includes detailed guidance on stormwater hydrology and an excellent example of the procedure used for designing a structural stormwater BMP (wet detention basin). The rest of the chapters (Chapters 3-7) contain profile sheets detailing individual stormwater BMPs, including infiltration basins and trenches, wet detention basins, stormwater wetlands, filter strips and grassed swales. The profile sheets include planning and design guidelines, a summary of required design calculations, and guidance on construction and maintenance. Low impact development and better site design are not discussed in the manual. There are no stormwater management objectives besides peak control and water quality control.

<http://learningstore.uwex.edu/Wisconsin-Storm-Water-Manual-P603C123.aspx>

“Best Of” Nominations

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Wyoming

Urban Best Management Practices for Nonpoint Source Pollution (1999)

Category: Construction/Post-Construction, BMP Handbook

Description: A handbook that provides basic guidance on construction and post-construction stormwater best management practices (BMPs). Contains some very basic BMP selection guidance, but the majority of the manual consists of information about BMPs presented in a fact sheet format.

<http://deq.state.wy.us/wqd/watershed/Downloads/NPS%20Program/92171.pdf>

“Best Of” Nominations

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Department of Transportation Stormwater Manuals

Arizona

Arizona Department of Transportation Erosion and Pollution Control Manual for Highway Design and Construction (2005)

Category: Construction, Erosion and Sediment Control Manual

Description: Produced by the Arizona Department of Transportation and specifically applies to ADOT projects. It does not have local authority on projects other than those conducted by ADOT, but could be a useful erosion and sediment control guidebook to others.

http://www.azdot.gov/adot_and/storm_water/Erosion_Pollution_Control_Manual.asp

“Best Of” Nominations

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Colorado

Colorado Department of Transportation Erosion Control and Stormwater Quality Guide (2002)

Category: Construction, Erosion and Sediment Control Manual

Description: Produced by the Colorado Department of Transportation and specifically applies to CDOT projects. It does not have local authority on projects other than those conducted by CDOT, but could be a useful erosion and sediment control guidebook to others. Good discussion about the impacts of highway construction and maintenance activities on receiving waters. Outlines the specific procedures contractors should follow in creating the stormwater management plan necessary for CDOT projects. Very good erosion and sediment control and pollution prevention guidance presented in a fact sheet format.

<http://www.dot.state.co.us/environmental/envWaterQual/wqms4.asp>

“Best Of” Nominations

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Montana

Montana Department of Transportation Erosion and Sediment Control Best Management Practices: Reference Manual (2003)

Category: Construction, Erosion and Sediment Control Manual

Description: Produced by the Montana Department of Transportation and specifically applies to MDT projects. It does not have local authority on projects other than those conducted by MDT, but could be a useful erosion and sediment control guidebook to others.

<http://www.mdt.mt.gov/research/projects/env/erosion.shtml>

“Best Of” Nominations

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Nebraska

Nebraska Department of Roads Drainage Design and Erosion Control Manual (2006)

Category: Construction, Erosion and Sediment Control Manual

Description: Produced by the Nebraska Department of Roads and specifically applies to NDOR projects. It does not have local authority on projects other than those conducted by NDOR, but could be a useful erosion and sediment control guidebook to others.

“Best Of” Nominations

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Texas

Texas Department of Transportation Stormwater Management Guidelines for Construction Activities (2002)

Category: Construction, Erosion and Sediment Control Manual

Description: Produced by the Texas Department of Transportation and specifically applies to TxDOT projects. It does not have local authority on projects other than those conducted by TxDOT, but could be a useful erosion and sediment control guidebook to others.

http://www.dot.state.tx.us/services/environmental_affairs/natural_resource_mgmt.htm

“Best Of” Nominations

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