



## Chapter 8

### LIST OF RELATED WEBSITES

The following websites are useful in understanding and applying BMPs in accordance with the Knoxville BMP Manual. The first three sections contain websites for local, state and federal governments. Most of these websites contain laws and regulations that apply to all citizens and entities within the City of Knoxville. These websites represent some of the general information available from the local, state and federal governments. Users of this BMP Manual are encouraged to research particular topics of interest to them.

The last section has various informational sites that may suggest better ways and methods for implementing BMPs. A common reaction to local implementation of BMPs and pollution prevention measures is that it seems to be excessive and that other cities and states are not burdened by these regulations. BMPs are generally required for most large and medium size municipalities with some differences in target development dates. BMPs are mandated as part of the issued NPDES stormwater permit for the City of Knoxville by the Tennessee Department of Environment and Conservation (TDEC).

The history of BMPs across the United States demonstrates that water pollution measures are making a significant difference in coastal waters (such as the Chesapeake Bay or Pudget Sound) and in urban streams (such as the San Antonio River in downtown San Antonio). Closer to home, the cities of Memphis, Nashville, and Chattanooga are also required to enact BMPs to improve water quality. It is greatly desired that this BMP Manual will contribute to the quality of life in communities near streams throughout the City of Knoxville and also along the Tennessee River waterfront.

#### 8.1 Websites for the City of Knoxville

- 1) <http://www.cityofknoxville.org/engineering/>

This website contains an overview of the City Engineering Department and lists general telephone numbers for the various divisions within the Engineering Department. It also has information concerning the Water Quality Hotline (215-4147) as well as a link to the full text of the Stormwater and Street Ordinance. The Knoxville BMP Manual is posted at this website for quick and easy use by all citizens of Knoxville and the surrounding communities. Each page of the BMP Manual contains the month and year of issue that represent the current version. This information is also listed on the menu page for the online BMP Manual. The Knoxville Land Development Manual is also posted at this website, as well as typical engineering details and standard specifications.

- 1) <http://www.cityofknoxville.org/services>

This website contains an overview of the City Public Services Department, including a description of the various services. It has general telephone numbers for the various divisions within the Public Services Department.

- 1) <http://www.cityofknoxville.org/solidwaste>

This website contains more detailed information on the Office of Solid Waste, such as the recycling program, waste transfer stations, household hazardous waste collection, and various links to other solid waste information.



## 8.2 Websites for the State of Tennessee Government

- a) <http://www.state.tn.us/environment/>

This website contains general information for Tennessee Department of Environment and Conservation (TDEC) along with links for further information such as a contact list for emergency numbers. The website has links to various divisions within TDEC as well as a site index with alphabetical list of contents (starting with Aboveground Storage Tanks).

- b) <http://www.state.tn.us/environment/permits/>

This website contains a list of environmental permits which are issued by TDEC along with links for further information. Environmental permits are classified under these categories: Air, Water, Waste, Radiological, and Natural Resources.

- c) <http://www.state.tn.us/environment/wpc/publications/>

This website contains a list of publications which are available from the Division of Water Pollution Control, which is an entity within TDEC. In addition, the website has links to the various state laws and regulations which involve water pollution control.

- d) <http://www.tennessee.gov/environment/wpc/publications/streambank/index.shtml>

This website is entitled, "A Landowner's Guide to Streambank Protection and Stabilization". It has permit information, common questions, and an information video."

- e) <http://tennessee.gov/environment/na/pdf/county.pdf>

This website contains the list of rare species found in Tennessee counties, including Knox County, as compiled by the Division of Natural Heritage. The list includes the federal status and state status of each species when available.

- f) <http://www.tdot.state.tn.us/construction/specs.htm>

This website contains the Tennessee Department of Transportation (TDOT) Standard Specifications for Road and Bridge Construction, issued March 1995. This publication has erosion control practices and materials required on TDOT projects and by many local projects.

- g) [http://www.tdot.state.tn.us/Chief\\_Engineer/engr\\_library/design/Std\\_Drwg\\_Eng.htm](http://www.tdot.state.tn.us/Chief_Engineer/engr_library/design/Std_Drwg_Eng.htm)

This website contains the Tennessee Department of Transportation (TDOT) Standard Drawings grouped under several categories. Of principal interest to BMP designers are all types of drainage structures, catch basins, manholes, culverts, landscaping practices, tree walls, sediment basins, and various other erosion control devices.

## 8.3 Websites for the United States Government

- a) <http://www.epa.gov/owm/mtb/mtbfact.htm>

This website within the U.S. Environmental Protection Agency (USEPA) contains a comprehensive series of Municipal Technology BMPs under several categories, such as Stormwater, Wastewater, and Combined Sewer Overflows and Stormwater.



b) <http://www.epa.gov/oppt>

This website contains a comprehensive series of publications that deal with pollution prevention measures available for downloading in HTML or PDF formats. Some publications are for various industries such as printers and garment cleaning.

c) <http://www.epa.gov/epahome/comm.htm>

This website contains USEPA public databases that allow direct access to environmental information on air quality, chemicals, facilities information and addresses, hazardous waste, toxic releases, and drinking water quality. The databases are linked to a mapping feature to provide local data whenever queried. There are additional features to allow customized reports and data.

d) <http://www.epa.gov/opptsmnt/>

This website contains public information and publications from the USEPA Office of Prevention, Pesticides & Toxic Substances. Topics addressed include household chemicals, lead-based paints, pesticides and food. Includes access to CFR Title 40 (Protection of Environment).

e) <http://www.epa.gov/lawsregs/>

This website contains a list of USEPA laws and regulations along with links to a summary and full text of each law and regulation. Contains access to the entire United States Code.

f) <http://epa.gov/epahome/publications.htm>

This website contains a list of downloadable and printable USEPA documents, including references 137 and 138 concerning preparation of stormwater pollution prevention plans for construction and industrial activities.

g) <http://www.fhwa.dot.gov/engineering/hydraulics/>

This website contains a growing list of FHWA design manuals that can be ordered on-line, including many documents that can be downloaded at no cost in Adobe Acrobat PDF format. Two very useful manuals are reference 158 (Hydraulic Design of Highway Culverts) and reference 160 (Hydraulic Design of Energy Dissipators for Culverts and Channels).

h) [http://www.wsi.nrcs.usda.gov/products/W2Q/H&H/Tools\\_Models/tool\\_mod.html](http://www.wsi.nrcs.usda.gov/products/W2Q/H&H/Tools_Models/tool_mod.html)

This website has a free downloadable Acrobat PDF file of Technical Release 55, published by National Resources Conservation Service (formerly known as the SCS) in June 1986. TR-55 is the basic document for defining NRCS drainage computations as required by Knoxville Stormwater and Street Ordinance. The TR-55 computer program can also be downloaded, but is of limited value and does not perform detention routing.

i) [http://www.wsi.nrcs.usda.gov/products/W2Q/H&H/Tools\\_Models/tool\\_mod.html](http://www.wsi.nrcs.usda.gov/products/W2Q/H&H/Tools_Models/tool_mod.html)

This NRCS website contains the Watershed Technology Electronic Catalog, with a variety of publications and AutoCad drawings to download. Categories include pollution control, hydraulic structures, plants, erosion, watershed details, etc.

j) <http://www.wcc.nrcs.usda.gov/hydro/hydro-techref-neh-630.html>

This website contains Part 630 (Hydrology) of the National Engineering Handbook, a classic reference on NRCS hydrology methods, drainage design, hydrograph selection and flood routing.



## 8.4 Miscellaneous Websites

- a) <http://www.knoxcounty.org/epw/>

This website is the Knox County government website for Engineering & Public Works, containing site development information, hydrologic design criteria, permits, and stormwater management. Knox County is also required to meet USEPA standards for the regulatory control of NPDES stormwater runoff.

- b) <http://www.nashville.gov/stormwater>

This website contains the stormwater quality management program for the Department of Public Works for metropolitan Nashville. The Nashville BMP Manual was also developed by Camp Dresser & McKee in the same basic format as the Knoxville BMP Manual. This website also describes the various programs in Nashville (Illicit Investigation, Field Screening, Ambient Sampling, Wet Weather Sampling, Construction Inspection) that are very similar to what the City of Knoxville is required to do.

- c) [http://www.chattanooga.gov/Public\\_Works/70\\_CityEngineering&StormwaterManagement](http://www.chattanooga.gov/Public_Works/70_CityEngineering&StormwaterManagement)

This website contains information for the stormwater management program in the city of Chattanooga, such as BMP brochures, contact information, and a list of the various programs. Chattanooga has a different approach than the other large cities in Tennessee, in that it collects a stormwater utility fee from landowners in order to provide stormwater services. Chattanooga has required the capture of 0.75" first flush runoff volume with a release time of 4 days, and has also mandated sand filtration units for detention pond design.

- d) <http://www.sacstormwater.org/index.html>

This website (from Sacramento, California) contains various links to local governments (cities and counties from across the USA) with stormwater programs similar to the City of Knoxville. Southeastern cities similar in size to Knoxville (in addition to Nashville and Chattanooga) include: Birmingham AL, Louisville KY, Charlotte NC, Charlottesville VA, and others.

- e) <http://www.cis.utk.edu/>

This website represents the UT Center for Industrial Services and contains a variety of methods to assist businesses and industries. In particular, it has additional weblinks to many environmental sites to obtain publications, checklists, SIC codes, etc. Information includes checklists of required business permits, information on recycling and waste reduction, and design guidance.

- f) <http://www.engr.utk.edu/research>

This website contains the report entitled, "Soil Erosion Prevention & Sediment Control", authored by James Smoot and Russell Smith from the University of Tennessee at Knoxville. The report is dated December 1999 and contains over 200 pages; it is an excellent source on erosion problems and solutions for the area of East Tennessee, and the city of Knoxville in particular.



g) <http://www.utextension.utk.edu/publications/>

This website contains many publications from the University of Tennessee Agricultural Extension Office (for Knox County), which is located on the 5<sup>th</sup> floor of the City County Building. The agricultural extension office has many free brochures and pamphlets concerning trees, grasses, forestry, horticulture, crops, and gardening. This office is also an excellent source of information for pest control, fishing, and environmental issues. Some publications are available on-line, generally in Adobe Acrobat PDF format.

h) <http://www.bmpdatabase.org/>

This website represents a national database of BMP performance statistics. It is being developed under the sponsorship of USEPA and the American Society of Civil Engineers. This database will continue to grow as additional data and statistics are submitted by local and state governments. Stormwater pollutants are grouped into 12 categories.

i) <http://www.igin.com/>

This website (Irrigation & Green Industry Network) provides guidance for chemicals, power equipment, tree care, pesticides and fertilizers. It also contains a glossary of various trees, shrubs, vines, bedding plants and groundcover under the name Plant Search.

j) <http://www.ehso.com/>

This website (Environmental Health and Safety Online) is a comprehensive information source on federal regulations, emergency response, hazardous waste, chemicals, training, OSHA, solid waste and many other topics.

l) <http://www.tva.com/nativeplants>

Tennessee Valley residents now can find the best native plant species for landscaping by using TVA's new online guide. It is designed to help select regional native plants for specific situations, from water's edge to upland slope. The Native Plant Selector includes photographs and details about height, light requirements, bloom time and more for each species. The detailed search feature allows the users to generate a list of native plants that will meet their specific moisture, light, or soil conditions, wildlife value and other characteristics.