

SEDIMENTS

Newsletter of the North Carolina Sedimentation Control Commission

Chatham County and Town of Cary Win Statewide Award for Excellence in Erosion and Sediment Control

By Ashley Rodgers, NC Department of Environment and Natural Resources - Land Quality Section, Raleigh, NC

The annual Local Programs Workshop and Awards Banquet was held at the Mid-Pines Inn and Conference Center in Southern Pines, NC, on January 29 and 30, 2008. This annual event brings together representatives from each of the 50 delegated local programs throughout the state for specialized training and discussion of issues pertinent to erosion and sediment control in North Carolina.

Local erosion and sediment control programs have the ability to exercise greater control over erosion and sediment control in their jurisdictions and often may inspect sites more frequently than the state program. Furthermore, local erosion and

sediment control ordinances may be more restrictive than state law, giving additional control over the development occurring within their jurisdictions. The North Carolina Sedimentation Control Commission recognizes the value and importance of local erosion and sediment control programs in controlling sedimentation pollution to North Carolina's waters. To recognize outstanding local programs, each year awards of excellence are presented to programs in two categories:

- Programs providing 0-3 man-years or full-time equivalents supporting erosion and sediment control
- Programs providing 3+ man-years or full-time equivalents supporting erosion and sediment control

This year, Chatham County received the Local Program Award of Excellence for a program of fewer than three full time equivalents. Chatham County is a relatively young local program, having just been established in 2006. In his nomination of the program, NCDENR Regional Engineer John Holley noted that the program was "birthed" in a volatile political climate locally relative to issues affecting development activity.....It is significant that the program, particularly Jim Willis as its field inspector/plan reviewer, has received

favorable support from local environmental interests, namely the Haw River Assembly." In fact, one of the major strengths of the Chatham County program is that they have a very involved citizen base that is concerned about protecting the county's natural resources. The local government, environmental review board, and several local environmental groups all work together to promote smart growth.

Chatham County's delegated erosion and sediment control program is located in the

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Jim Willis, Lead Soil Erosion and Sedimentation Control Officer for Chatham County, receives the Local Program Award (fewer than three man-years of support) from Elaine Chiosso, N.C. Sedimentation Control Commission member. Also pictured are (first row, from left): Holly Coleman, Rachael Thorn, Beverly Kay, (second row, from left) Andy Siegner, Charlie Horne and Bill Browder.

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State of North Carolina,
Department of Environment & Natural Resources
William G. Ross, Jr., Secretary

Land Quality Section
Division of Land Resources
James D. Simons, Director and State Geologist

Environmental Health Division of the Public Health Department. It reviews and approves plans throughout the county, with the exception of activities located in the Pittsboro extra territorial jurisdiction (ETJ) or the Siler City extra territorial jurisdiction. If a project is located in either of those ETJs, they are referred to the State Department of Environment and Natural Resources. The total territory covered under this local program's jurisdiction spans approximately 705 square miles.

The County erosion control program works with the Planning Department to hold performance bonds until everything is built and the project is stabilized before returning the bond. Furthermore, a mandatory pre-construction conference is required for large sites in the County. Upon the inception of the program, the NCDENR model ordinance was adopted to meet the minimum state requirements for erosion and sedimentation control, giving the program a chance to get started and to learn where the ordinance needed to change. The county currently has a committee organized to review and rewrite the ordinance to address the specific needs of Chatham County.

Jim Willis, Lead Soil Erosion and Sediment Control Officer for the County, has worked tirelessly to build the foundation for the program, serving as the sole plan reviewer and inspector for over a year. The addition of Rachael Thorn, Soil Erosion and Sediment Control Officer, to the staff is yet another commitment to the program and will help to ensure its continued success and growth. The Chatham County program currently has 2.5 full time equivalents devoted to erosion and sediment control – a lead officer, a second officer, and a processing assistant that is shared with another program for the County.

Ms. Elaine Chiosso, Sedimentation Control Commission member and Executive Director of the Haw River Assembly, gave her congratulations to Chatham County's program saying, "Congratulations on the outstanding work Jim Willis has accomplished in the short time that the program has been running in Chatham County. I have lived in Chatham County for 35 years and have seen serious problems in the streams due to the recent surge in development construction. Jim has created an energetic and proactive program to address these issues, and has been given strong support by the Chatham County Commissioners and the Board of Health."



Tom Horstman, Stormwater Files Services Administrator for the Town of Cary, receives the Local Program Award (more than three man-years of support) from Rob Weintraub, Sedimentation Control Commission member. Also pictured are (from left): Michael Horan, Charles Brown, Terry Warren and Kirk Stafford.

More information about the Chatham County Erosion and Sediment Control Program may be found on their website at: <http://www.chathamnc.org/Index.aspx?page=583>

In the category of 3 or more full time equivalents devoted to erosion and sediment control, the Town of Cary received the award of excellence. This is the third time that the Town of Cary has been honored with this award in the eleven years that it has been presented. Cary first won the award

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Personnel Changes

- Chastity Clark, former Assistant Regional Engineer in the Wilmington Regional Office, is the new Assistant State Mining Specialist in the Raleigh Central Office.
- Max Fowler, State Dam Safety Engineer, has accepted a position with the Federal Energy Regulatory Commission in Atlanta, GA.
- Karl Hammers is a new Environmental Specialist in the Wilmington Regional Office.
- Laura Herbert, Assistant Regional Engineer and express permit reviewer in the Asheville Regional Office, is leaving state employment at the end of February.
- Katherine Marciniak is a new Environmental Specialist in the Asheville Regional Office.
- Sally McKinney has been promoted to the Environmental Engineer II (express permitting) position in the Fayetteville Regional Office.
- Nick Mills is a new Environmental Specialist in the Wilmington Regional Office.
- Ryan Swaim is a new Environmental Specialist in the Winston-Salem Regional Office.
- Neil Uldrick is a new Environmental Specialist in the Winston-Salem Regional Office.



SEDIMENTS is published quarterly by the NC Sedimentation Control Commission to provide information and assistance to the regulated community and to facilitate communication among personnel of state and local erosion and sedimentation control programs.

Send comments to Ashley Rodgers, NCDENR-Land Quality, 1612 Mail Service Center, Raleigh, NC 27699-1612. Email: Ashley.Rodgers@ncmail.net. Send change of address and subscription information to NCSU Water Quality Group, NCSU Box 7637, Raleigh, NC 27695-7637; (919) 515-3723; cathy_smith@ncsu.edu). To receive *Sediments* electronically, please subscribe at: <http://www.dlr.enr.state.nc.us/pages/sedimentationnewsletters.html>. Five thousand copies of this newsletter were printed at a cost of \$1,490 or 30 cents per copy.

Personnel of the Land Quality Section of the NC Department of Environment and Natural Resources provide information and assistance for implementation of the NC Erosion and Sedimentation Control Program. For assistance, please contact the Regional Engineer or the Raleigh headquarters listed below:

Janet Boyer, PE
2090 US Hwy 70
Swannanoa, NC 28778
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(910)796-7215

Matt Gantt, PE
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Winston-Salem, NC 27107
(336)771-5000

Gray Hauser, PE
Raleigh Central Office
512 N. Salisbury St., 1612 MSC
Raleigh, NC 27699-1612
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The North Carolina Sedimentation Control Commission

The Sedimentation Control Commission (SCC) was created to administer the Sedimentation Control Program pursuant to the NC Sedimentation Pollution Control Act of 1973 (SPCA). It is charged with adopting rules, setting standards, and providing guidance for implementation of the Act. The composition of the Commission is set by statute to encompass a broad range of perspectives and expertise in areas related to construction, industry, government, and natural resource conservation and quality. All members are appointed by the Governor and serve three-year terms, except for the Director of the Water Resources Research Institute of the University of North Carolina, who serves as long as he remains Director. The chairman of the SCC is named by the Governor. The following is a list of current members with the organizations they represent:

Chairman:

Kyle Sonnenburg
Fayetteville
NC League of Municipalities

Vice Chairman:

Donnie W. Brewer
Greenville
NC Environmental Management Commission

Commissioners:

W.T. "Buzz" Bryson
Raleigh
NC Public Utilities

Elaine C. Chiosso
Bynum
Non-governmental Conservation

John William Miller, Jr.
Burnsville
NC Mining Commission

Joseph H. Kleiss
Raleigh
NC State University, Dept. of Soil Science

Grover McPherson
Winston-Salem
NC Soil and Water Conservation Commission

David H. Moreau
Raleigh
Water Resources Research Institute of
The University of North Carolina

Joseph Rudek
Raleigh
Non-governmental Conservation

Mark A. Taylor
Greensboro
Professional Engineers of NC

Richard Vick
Wilson
Carolinas Associated General Contractors

Rob Weintraub
Wake Forest
NC Home Builders Association

as a small local program in 1998, the first year awards were presented, and has also received the award in 2002 in the large local program category.

The Town of Cary was also nominated for this award by John Holley, Regional Engineer of NCDENR. Mr. Holley, in his nomination, noted the following:

"This program continues to perform very effectively in a rapidly growing community where public awareness is high, and control of development is valued by the general population. The Cary staff, particularly Tom Horstman, continues to exhibit noteworthy leadership in the region through the triangle association of sediment and erosion control programs as well as service to the SCC's technical advisory committee. They have worked cooperatively with other local programs, the state, and technology developers to experiment with the most up-to-date practices available, and have worked to disseminate usable (CAD) and consistent construction details to the design community via their website. The town has continued to support the professional development of its staff, and has been supportive in the development of a streamlined and efficient computerized data management system that facilitates both plan review and inspection activities in their program. They have been effective in their coordination of the program with other stormwater management efforts, particularly in the preservation of riparian buffers along watercourses beyond those established by state regulation."

Cary's designated local erosion and sediment control program was delegated by the state in 1985 and is housed in the Stormwater Services Section of the Town of Cary Engineering Department. Staff members are trained to handle a variety of water quality issues, and devote three full time equivalents to the erosion and sedimentation control program. Cary's jurisdiction covers an area of 53.3 square miles within the city limits and an additional 4.49 square miles of extra territorial jurisdiction.

The Town of Cary does enforce stricter standards than the state within their local erosion and sedimentation control ordinance, including: requiring plans to be submitted and approved for all disturbed areas over 12,000 square feet; stream buffer requirements that exceed the state standards in both the Neuse and Cape Fear watersheds; and the requirement that all sediment basins within their jurisdiction be outfitted with skimmers for dewatering.

The Cary program is always on the forefront of new technology and innovation – most recently, staff are transitioning to a completely paperless office. The Town of Cary along with other local programs from the City of Raleigh, Town of Apex, and the Town of Holly Springs has hosted workshops for contractors on the proper installation and maintenance of erosion controls to provide outreach to the regulated community.

More information on the Town of Cary Erosion and Sediment Control Program may be found on their website at:

<http://www.townofcary.org/depts/dsdept/engineering/devinspect/eroscon.htm>

Congratulations to these two well deserving programs in recognition of their excellence in erosion and sediment control.



New Sedimentation Control Commission Member

Mr. Robert Weintraub, Project Manager with Ammons Development Group in Wake Forest, has been appointed by Governor Easley to serve as the representative of the North Carolina Homebuilders Association to the Sedimentation Control Commission (SCC). Mr. Weintraub is the current Director of the North Carolina Home Builders Association, and also serves on the Board of Directors for the local chapter of the Home Builders of Raleigh/Wake County. In 1998-1999, he also served as a member of the North Carolina Neuse River Buffer Stakeholders Committee.



Wetlands and Stormwater Branch of DWQ Hires New Training Coordinator

Mrs. Karen Higgins is the new training coordinator in the Wetlands and Stormwater Branch of the Division of Water Quality (DWQ) as of September 4, 2007.

Mrs. Higgins attended the University of Kansas and received a Bachelor of Science in environmental science. She then received a Master of Science in Zoology from Miami University. Prior to taking the training coordinator position, Mrs. Higgins worked as a biologist with the U.S. Geological Survey in Menlo Park, California and the U.S. Forest Service in Oxford, Mississippi. She has spent the last two years as an environmental specialist in the Non-Point Source Assis-

tance & Compliance Oversight Unit, also in DWQ.

Mrs. Higgins will be developing and coordinating training courses for DWQ staff assigned to wetland, stream, buffer or stormwater duties. She will also be coordinating Annual Meetings within the Branch as well as coordinating outreach/education to other government agencies, the regulated community, interest groups and the general public on North Carolina's wetland, stream, buffer, and stormwater rules.

Mrs. Higgins may be reached at 919-733-5083 ext. 574 or karen.higgins@ncmail.net



Free Educational Resources Available:

Teach Your Group About Erosion and Sediment Control

The Sediment Program of the Division of Land Resources is not just a resource for engineers, contractors, and developers. Staff are available to speak at schools, neighborhood associations, meetings, and many other public and private functions at no cost to you! While we have several programs already designed for school use, we will be happy to tailor presentations for you or your group on a variety of topics.

Materials for Schools include:

- **Erosion Patrol:** This packet is designed for 3rd – 5th grade students and assists teachers in meeting and expanding upon selected objectives from the NC Standard Course of Study in communication skills, social science, and elementary science. The Patrol includes 10 activities for both classroom and field experiences as well as follow-up activities. Additional technical assistance is available upon request.



Students get out of the classroom to learn about erosion and sediment control with the Erosion Patrol.

- **Where Is All of Our Soil Going?:** This supplement is for middle school students and is designed to teach them about erosion and soil loss – including why this environmental issue is so important. Instructor information for classroom presentations, as well as several activities for students, are provided.
- **Enviroscape Erosion Control Model:** This three-dimensional model of a typical watershed is used to demonstrate the processes and effects of accelerated erosion and sedimentation. It also effectively demonstrates other sources for non-point pollution. The presentation has a flexible range of age and can be geared towards kindergarteners or towards adults. Staff are available to bring the model in for a classroom presentation.



Kids and adults learn “hands-on” about sediment pollution on our lands and waters with the Enviroscape model.

- **Educational handouts and activities:** On the Land Quality Section website, there is an order form where teachers and students may request various educational materials, including informational items, posters, activities, word searches, and more! All materials are provided free of charge. Please visit our website at: <http://www.dlr.enr.state.nc.us/pages/publications.html> and look at “Educational Materials” to find our order forms and to see a complete list of what is available.

If you are interested in having a speaker for your classroom or group, please contact the Sedimentation Education Specialist, Ashley Rodgers, at:

Ashley Rodgers
1612 Mail Service Center
Raleigh, NC 27699-1612
(919) 733-4574

Ashley.Rodgers@ncmail.net

Notice to All Current Owners of the North Carolina Erosion and Sediment Control Field Manual

Revisions are currently underway for the Field Manual, a companion resource to the larger Planning and Design Manual. These updates are intended to reflect the latest standards and specifications incorporated into the Planning and Design Manual in June of 2006. All current owners of the Field Manual will receive a revision packet at no charge. However, to ensure that you receive your revisions in a timely manner, please send the following information to Ashley.Rodgers@ncmail.net:

- Name
- Current address
- Number of manuals owned
- Manual number(s), located on the title page

If you have any questions, please call our office at (919) 733-4574.

International Erosion Control Association (IECA) 2009 Conference February 11-12, 2009 Reno, NV

Call for Abstracts — Due May 5, 2008 --
<http://www.ieca.org/>

Who Should Submit? Any professional involved with erosion and sediment control:

- **Contractors:** Share your experiences on installations, equipment, innovations and business management.
- **Design Professionals:** Describe new approaches to design challenges, present case studies on difficult projects or explain the latest design tools.
- **Government Personnel:** Tell the story of a successful regulatory policy or demonstrate the economic benefits of erosion control programs.
- **Researchers/inventors:** Present the data that advances new technology, explores new concepts and challenges traditional approaches.
- **Manufacturers:** Describe the latest advancements in product technology and applications. Advancements in product technology and applications.

NC Sedimentation Control Commission: February Actions

At its meeting on February 20, 2008, the NC Sedimentation Control Commission (SCC) took the following actions:

- The annual review summary for the program delegation to NC Department of Transportation's (NCDOT), Division of Highways was presented. NCDOT's implementation of their new 2006 erosion and sediment control standards has strengthened their program. The NCDOT certification for Sediment and Erosion Control courses given by NC State University have also strengthened the program. Early establishment of ground cover is the strongest part of the NCDOT's program. The SCC approved 8 recommendations to continue to strengthen NCDOT's delegated program:
 1. Standardize weekly inspection reports; including rainfall data and stormwater monitoring;
 2. Limit cotton fiber mulch to applications favorable for rapid vegetation establishment (e.g., adequate moisture and temperature);
 3. Avoid vertical side slopes in diversions, traps and basins;
 4. Enhanced sediment settling with flocculants should be integrated with traditional practices;
 5. Provide adequate sediment control for the clearing and grubbing of cut slopes in steep terrain;
 6. Sediment controls should be kept in place until sufficient ground cover is established;
 7. Inlet protection for slope drains should be designed for adequate sediment trapping and storage; and
 8. NCDOT should develop a plan to be consistent with the NCDENR rules in determining if a land disturbing activity required an environmental document under the State Environmental Policy Act.
- Approved a new delegation for NCDOT, General Services Division. This would include non-highway right-of-way projects such as maintenance

yards and DMV offices. Monthly inspections would be performed by the NCDOT Roadside Environmental Division.

- Approved the new delegation of local program authority to the City of Archdale.
- Approved local program contract funds for Iredell County (\$25,000 for start-up), City of Wilson (\$30,924 for start-up; approval contingent upon receiving delegation approval at the May 29, 2008 SCC meeting), Cabarrus County (\$2,040 to purchase GPS and camera supplies), Caldwell County (\$11,620 for supplies, travel and training), and the City of Newton (\$1,437 for GPS and GPS supplies).
- Deferred discussion to approve the continued delegation of local program authority for the City of Monroe until the May 28, 2008 SCC meeting. Additional information was requested.
- Approved the reallocation of \$2,400 from a temporary staff position (currently unfilled) to pay Correctional Enterprises for typesetting of Design Manual Revisions.

Supporting documents for these actions may be found online at <http://dlr.enr.state.nc.us/scc.html>.

NC SCC: 2008 Meetings

Wednesday, May 28

Thursday, August 21

Thursday, November 20

News from the Land Quality Section

Green Dozer Contractor Training Materials

A set of presentation materials designed to train contractors in erosion and sediment control, has been completed. Topics of the training include an introduction to the Sedimentation Pollution Control Act, overviews of basic erosion and sediment control best management practices, working around a stream, NPDES requirements, and many more! Training sessions must be taught by a Land Quality staff or designee. To speak with someone about using these materials for a training session, please contact the

Central Office at (919) 733-4574.

The focus of this training is to education grading contractors on erosion and sediment regulations, measures, and plan reading in an effort to keep construction sites from negatively impacting streams and other natural resources in North Carolina.

- **Module 1: SPCA.** Sedimentation Pollution Control Act of 1973, including the minimum standards.
- **Module 2: E&SC BMPs Part 1: E&SC Measures.** Identifies erosion and sediment control measures routinely designed and used on construction sites.
- **Module 3: Estimating Erosion Control.** Considerations for bidding on erosion and sediment control projects.
- **Module 4: Work Around a Stream.** Buffers, wetlands, stream permits and measures for working in a stream.
- **Module 5: NPDES Stormwater.** Complying with the Clean Water Act Stormwater regulations, including general site inspection and documentation information.
- **Module 6: E&SC BMPs Part 2: Ground Cover.** Selecting and using proper seeding specifications, seeding techniques and application of amendments and mulch.
- **Module 7: Enforcement Process.** How to maintain or re-establish compliance with the SPCA.
- **Module 8: Blueprint Reading For Erosion Control.** Accurately reading blueprints in preparation for constructing erosion control measures.
- **Module 9: Erosion Control Materials.** Erosion control fabrics and materials available, e.g. channel linings, check dams, temporary and permanent erosion control mats and blankets, hydraulically applied mulches, and gabions.

To report possible violations of the NC Sedimentation Pollution Control Act, call

1-866-STOPMUD
786-7683



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c/o NCSU Water Quality Group
Campus Box 7637
Raleigh, NC 27695-7619

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4/2/08	NCSU Erosion and sediment Control Workshop, Raleigh, NC http://www.soil.ncsu.edu/extension/training/index.php#35	5/14/08	Assessment and Identification of Riparian Vegetation, Pittsboro, NC http://www.ncsu.edu/srp/veg_workshop.html/
4/9-10/08	WRRRI Erosion and Sedimentation Control Workshop, Hickory, NC http://www.ncsu.edu/wrri/erosionworkshops.html/	6/4/08	Level III-A: Design of Erosion & Sediment Control Plans, Raleigh, NC http://www.bae.ncsu.edu/workshops/dot/
4/22/08	Level II: Erosion & Sediment Control/Stormwater Certification, Hickory, NC http://www.bae.ncsu.edu/workshops/dot/	6/05/08	Level III-B: Design of Erosion & Sediment Control for Reclamation Plans, Raleigh, NC http://www.bae.ncsu.edu/workshops/dot/l
4/23/08	Level I: Erosion & Sediment Control/Stormwater Certification, Hickory, NC http://www.bae.ncsu.edu/workshops/dot/	6/23-24/08	Low Impact Development Summit, NC http://www.bae.ncsu.edu/workshops/lid_summit/
4/24/08	Level II: Erosion & Sediment Control/Stormwater Re-Certification, Raleigh, NC http://www.bae.ncsu.edu/workshops/dot/	7/26-30/08	2008 Soil and Water Conservation Society's Annual Conference, Tucson, AZ http://www.swcs.org/08ac
5/7/08	NCSU Hands-On Course on Installation of Constructon Site Erosion and Sediment Control Devices, Raleigh, http://www.soil.ncsu.edu/extension/training/index.php#35	11/3-6/08	2008 Southeast Regional Stream Restoration Conference, Asheville, NC http://www.ncsu.edu/srp/2008conference/