



SEDIMENTS

Newsletter of the North Carolina Sedimentation Control Commission

STATE OF NORTH CAROLINA, DEPARTMENT
OF ENVIRONMENT AND NATURAL RESOURCES
William G. Ross, Jr. Secretary

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

Vol 12 No 2

April - June 2005

Seamless Map Integration for North Carolina: www.NCOneMap.com

Users can view geographic data seamlessly across North Carolina, search for and download data for use on their own geographic information system (GIS), view and query metadata, and determine data availability through an on-line data inventory using NC OneMap, www.NCOneMap.com. The site is a demonstration of partnerships and internet mapping technology that displays map information simultaneously from databases that reside throughout North Carolina and elsewhere in the nation. The NC OneMap viewer is a public service made possible by the North Carolina Geographic Information Coordinating Council in collaboration with the National Map.

The National Map, <http://nationalmap.gov>, is a consistent framework for geographic knowledge needed by the nation. It provides public access to high-quality, geospatial data and information from multiple partners that can help resource managers and the public make informed decisions. The National Map enhances America's ability to access, integrate, and apply geospatial data at global, national and local scales.

NC OneMap combines data from multiple data servers in a seamless map display. View "live" the NC OneMap regional viewer, http://204.211.135.111/nconemap_intro/, and see city, county, state, and federal data cast in one viewer. It allows quick access to the most recent information and is available 24 hours per day and seven days per week. Custom map viewers can be created to change the "look" of NC OneMap for an area or specialized theme (e.g. Hurricane Isabel Disaster Response).

NC OneMap is a tool that benefits the state, local governments and citizens of North Carolina through:

- Better informed government decisions
- Seamless map integration when tapping local, state, and federal data sources
- Enhanced statewide coordination and cost-savings
- Integration of data from multiple communities and jurisdictions presents new opportunities to address regional issues and problems
- Statewide community of geographic data stakeholders tackles the technical and policy issues
- Successful intergovernmental collaboration rewards elected officials, government leaders and North Carolina citizens

Visit the following web sites for more information:

- North Carolina Center for Geographic Information and Analysis: <http://cgia.cgia.state.nc.us/>
- North Carolina County GIS Data: <http://www.lib.ncsu.edu/stacks/gis/counties.html>
- Geospatial One Stop: <http://www.geo-one-stop.gov/>
- Geospatial data and information: <http://www.geodata.gov/>

IN THIS ISSUE

May Action of the North Carolina Sedimentation Control Commission	2
Advanced Workshops Drew Professionals Across North Carolina	4
2005 Muddy Water Essay Contest Winners	5

May Action of the North Carolina Sedimentation Control Commission

At its meeting on May 19, 2005, the NC Sedimentation Control Commission (SCC) took the following action:

- Delegated local program authority to implement the Sedimentation Pollution Control Act to Catawba County. The Catawba County Soil Erosion and Sedimentation Control Ordinance was also approved.
- Delegated local program authority to implement the Sedimentation Pollution Control Act to Chatham County. The Chatham County Soil Erosion and Sedimentation Control Ordinance was also approved with the stipulation that 43,560 square feet be added to Section 4(f) Plan Approval Exceptions.
- Approved continued probation of City of Winston-Salem local program. Further review of the local program will occur at the August SCC meeting. At the November 2004 meeting, the SCC had requested a six-month review and a local program written report due to deficiencies found in the program.
- Approved continued delegation of the Town of Banner Elk local program. At the November 2004 meeting, the SCC had requested a six-month review and a local program written report due to deficiencies found in the program.
- Approved continued delegation of the Town of Beech Mountain local program. At the November 2004 meeting, the SCC had requested a six-month review and a local program written report due to deficiencies found in the program.
- Approved continued delegation of the Town of Boone local program.
- Approved continued delegation of the Town of Kitty Hawk. At the November 2004 meeting, the SCC had requested a six-month review and a local program

written report due to deficiencies found in the program.

The following are education proposals on which the SCC acted:

- Approved support for four workshops (two in the fall and two in the spring) to train erosion and sedimentation control design professionals.
- Approved support for annual workshop and banquet for local programs to train and share ideas between local program staff from across the state.
- Approved continuation of the Land Quality Section student intern position.
- Approved continuation of the Sediments newsletter for the next fiscal year.
- Approved continuation of the Muddy Water Essay Contest for North Carolina high school students.
- Disapproved Pitt County's request as a sedimentation education project and agreed to fund the requested \$6,280 as a local program contract.
- Approved support for the Clear Water Contractor Education Material Enhancement. This will allow material enhancement of the Clear Water Contractor Training Program. The goal of this program is to educate land-disturbing contractors in the prevention of sediment pollution and erosion control on construction sites in North Carolina.
- Approved request for Local Program Contract Funds by Catawba County in the amount of \$38,587, to assist with the start-up of a local erosion and sedimentation control program.
- Dr. Greg Jennings gave a summary of the NC DOT Erosion and Sedimentation Control Training.

continued page 3



SEDIMENTS Vol 12, No 2
April - June 2005

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 Janet Paith, CPESC, NCDENR-Land Quality, 1612 Mail Service Center, Raleigh, NC 27699-1612. Email: Janet.Paith@ncmail.net. Send change of address and subscription information to WRRI, Box 7912, North Carolina State University, Raleigh, NC 27695-7912 (919)515-2815; water_resources@ncsu.edu). Fifty-seven hundred copies of this newsletter were printed at a cost of \$1,340 or 23 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
2090 US Highway 70
Swannanoa, NC 28778 (828) 296-4500

Doug Jones (Acting)
225 Green Street, Suite 714
Fayetteville, NC 28301 (910) 486-1541

Doug Miller, P.E.
610 East Center Ave.
 Mooresville, NC 28115 (704) 663-1699

John Holley, P.E., CPESC
3800 Barrett Drive, Suite 101
Raleigh, NC 27609 (919) 571-4700

Pat McClain, P.E.
943 Washington Sq. Mall
Washington, NC 27889 (252) 946-6481

Dan Sams, P.E.
127 Cardinal Dr. Ext.
Wilmington, NC 28405-3845 (910) 395-3900

Matt Gantt, P.E.
585 Waughtown St.
Winston-Salem, NC 27107 (336) 771-4600

Gray Hauser, P.E.
Raleigh Central Office
512 N. Salisbury St., 1612 MSC
Raleigh, NC 27699-1612 (919) 733-4574

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 Sonnenberg
Fayetteville

NC League of Municipalities/
NC Association of County Commissioners

Vice Chairman:

Ralph Stout
Greensboro

Carolinas Associated General Contractors

Commissioners:

Donnie W. Brewer
Greenville

NC Environmental Management Commission

W. T. "Buzz" Bryson
Raleigh

NC Public Utilities

Hugh J. Franklin
Marion

NC Mining Commission

Phillip Ray Gibson
Asheville

Non-governmental Conservation

Joseph H. Kleiss
Raleigh

NC State University Dept. of Soil Science

Grover McPherson
Winston-Salem

NC Soil and Water Conservation Commission

Vacant

Director of Water Resources Research Institute of
The University of North Carolina

Joseph Rudek
Raleigh

Non-governmental Conservation

Mark A. Taylor
Greensboro

Professional Engineers of NC

F. Roger Watson
Asheville

NC Home Builders Association

SCC continued

This self-supporting training is offered by NC DOT and certification is provided by NC State University. Six courses have been given to date. Ninety percent of the participants have passed the examination. Individuals with CPESC and CPSWQ certification will automatically be certified. Beginning in 2006, site managers working on DOT projects will be required to have this certification. If a Notice of Violation occurs, the person responsible will receive immediate revocation of his/her certification.

- Both Ms. Mary Combs, state conservationist for NRCS, and Mr. Michael Hinton, planning specialist for NRCS, gave a summary of the Emergency Watershed Protection Program. As a result of the damage done to western North Carolina during Hurricanes Frances and Ivan, \$34 million has been allocated for repair and restoration of landslides and streams. A small fraction—\$2 million in 40 contracts—has been allocated or spent. According to NRCS, many contracts are being prepared and most, if not all, the money will be allocated. All work must be awarded by September 1, 2005. NRCS is learning from this process and will be even more prepared when the next disaster strikes.

- Authorized to prepare a resolution on the Sediment Education budget to restore funding cuts and restrictions by the Senate.

Note: All approved local program and education contract monies are subject to availability of appropriated funds.

Personnel Changes

Mr. James Willis is the new environmental technician in the Raleigh Regional Office.

Fayetteville Regional Engineer Retired



Buzz Bryson (left), SCC member, and Gerald Lee talk during a break at the February Local Programs Workshop.

Mr. Gerald Lee retired in April as the Fayetteville Regional Engineer after giving 27 years of service to the Division of Land Resources (DLR) in Fayetteville. Lee began his career in DLR as an environmental technician then worked his way up to assistant regional engineer. After serving as the acting regional engineer in 2002, he became regional engineer. Mr. Mell Nevils, chief of the DLR Land Quality Section, stated that Lee was a good hard worker and will be missed. Mr. Doug Jones is currently serving as acting regional engineer.

New Asheville Regional Engineer

Ms. Janet Boyer joined the Asheville Regional Office as regional engineer on May 9. She has a Bachelor of Science in Mineral Engineering and a Master of Science in Civil Engineering. She has over 16.5 years of engineering experience in environmental work including time with the Ohio Department of Environmental Protection, BP Research, Glastic Corporation, General Electric, Fletcher Engineering and, most recently, with the Division of Air Quality. Boyer is a licensed professional engineer in Ohio and is working on securing her license in North Carolina. Mr. Mike Goodson had previously served as acting regional engineer.

Advanced Workshops Drew Professionals Across North Carolina

The workshops on Advanced Erosion and Sedimentation Control Planning and Design took place in Wrightsville Beach, NC on March 2-3, 2005, and Asheville, NC on April 26-27, 2005. Both workshops were well attended with 133 in Wrightsville Beach and 169 in Asheville. The importance of ground cover was emphasized by three of the speakers:

- ❑ Ted Sherrod of the NC Dept. of Transportation (DOT) spoke on "Stage Seeding of Construction Sites" which highlighted DOT's challenges and doing whatever it takes to obtain timely vegetative cover on linear construction sites.
- ❑ Toby Vinson of Southern Seeding Service, Inc., informed the audience of the three primary seeding and mulching techniques, erosion control blankets and limited vegetative maintenance techniques.



Kim Whitley, Toby Vinson and Cameron Weaver network during a break at the Wrightsville Beach workshop.

- ❑ Lara Rozzell of NC State University, shared the importance of using native plants in riparian seeding and planting.

More than 100 people came out for the field tour to NC DOT's stream relocation on Military Cutoff Road widening project and multiple sites at the Mayfaire development in Wilmington. Mr. Kerry Cross, NC DOT-Division 3, deserves many thanks for organizing the first part of the field tour. Ms. Beth Wetherill-Easley, New Hanover local program, did an outstanding job organizing the second part of the field tour. Thanks go to the Land Quality Section staff for assisting with safety and crowd control during the field tour.

The Asheville field tour included two field sites, the Cane Creek Stream Restoration site in Fletcher and a low impact development site on the UNC-Asheville campus. Kudos go to Ms. Me-

lissa Acker, landscape director, UNC-Asheville, for allowing field tour teaching opportunities at the new physical plant site. Thanks also go to Mr. Jon Calabria, North Carolina Arboretum, for making arrangements to visit the stream restoration site.

The workshop presentations are available for viewing in pdf format at <http://www.ncsu.edu/wri/erosionseminars.html>. Please see the last page for the upcoming fall workshops.



Kerry Cross of NC Dept. of Transportation discusses the DOT stream relocation project with field tour participants in Wilmington.

Express Permitting Comes to Mooresville Regional Office

The Express Permitting Program is now located in the Mooresville Regional Office. The program is already located in the Raleigh, Washington and Wilmington Regional Offices. The Mooresville Regional Office covers the following counties: Alexander, Cabarrus, Catawba, Cleveland, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanley, and Union.

The following permits and certifications are currently part of the express program:

- ❑ Coastal stormwater permits
- ❑ Water quality wetland certifications
- ❑ Stream origin determinations
- ❑ Erosion and sedimentation control plans
- ❑ Permits under the Coastal Area Management Act
- ❑ Water quality non-discharge permits.

Local agencies that have jurisdiction over permitted activities in their area may not currently be participating in this program. The express program may expand to include other permits and certifications at a later date.

For more information on the Express Permitting Program in the Mooresville Regional Office contact Patrick Grogan, permit coordinator, at 704-235-2107 or email him at Patrick.Grogan@ncmail.net. For general information on the program go to <http://www.envhelp.org/html/onestopexpress.html>.

2005 Muddy Water Essay Contest Winners

Regional winners of the Sixth Annual Muddy Water Essay Contest convened from across the state for the final state competition at the Koury Convention Center in Greensboro, NC, on April 13, 2005. The seven regional finalists presented their papers to three judges: Ms. Janet Bailey and Ms. Lynne Gronback, science consultants for the Department of Public Instruction, and Mr. Gray Hauser, state sediment specialist, NC Land Quality Section. Thirty-seven parents, teachers and staff attended the luncheon banquet. Mr. Mark Taylor of the Sedimentation Control Commission shared his thoughts on natural versus regulated erosion. Mr. Gray Hauser and Ms. Janet Paith, state sediment education specialist, announced the winners:

- ❑ First place went to Miss Addie Carr, 9th grade, of Hendersonville High in Henderson County (Asheville regional winner), who received \$1200.



- ❑ Miss Shannon Mossop, 11th grade, of Havelock High School in Craven County (Washington regional winner)
 - ❑ Miss Caroline Mikaloff, 9th grade, of Pine Forest High School in Cumberland County (Fayetteville regional winner)
- Each regional winner received \$120.

The number of participating high school students increased from 442 last year to 615 for the sixth annual contest. The purpose of this contest is to enhance the thinking skills of North Carolina high school (9th-12th grade) students on the processes of soil erosion and sedimentation, the biological and economic impacts of these processes, how erosion and sedimentation affect the student and their community, and how to prevent erosion and control sedimentation. Essays included topics related to erosion and sedimentation control



Amber Heckart receives the second place award from Mark Taylor, SCC member.

- ❑ Second place went to Miss Amber Heckart, 9th grade, of Dixon High School in Onslow County (Wilmington regional winner), who received \$600.
- ❑ Third place went to Miss Rhiannon Little, 10th grade, of Wilson Christian Academy in Wilson County (Raleigh regional winner), who received \$300.

The other regional winners were:

- ❑ Miss Shelby Skoog, 11th grade, of Career Center in Forsyth County (Winston-Salem regional winner)
- ❑ Miss Morgan DePue, 9th grade, of North Lincoln High School in Lincoln County (Mooresville regional winner)

Addie Carr receives the first place award from Mark Taylor, SCC member.



Rhiannon Little receives the third place award from Mark Taylor, SCC member.

(beach erosion was not included).

The Land Quality staff worked hard to implement this program and would like to thank all the regional judges that judged 101 essays from students across the state: Mr. John Holley, Raleigh Regional Office; Ms. Cindy Safrit, Winston-Salem Regional Office; Mr. Schuyler Snowdon, Wilmington Regional Office; Mr. Ricky Peed, Washington Regional Office; Mr. Doug Miller, Mooresville Regional Office, Mr. Mike Goodson, Asheville Regional Office; and Ms. Wendy Dunaway, Fayetteville Regional Office. Ms. Cara Hamilton, sediment education intern, prepared mailings, banquet programs, and certificates for participants. The Land Quality Section thanks everyone who made this program possible on the local level. Congratulations to all the winners!

Clean Water, Healthy Streams, Strong Communities

Joint Southeastern Stormwater Management & Erosion and Sediment Control Conference

October 2-6, 2005

Wyndham Peachtree Conference Center
Peachtree City, Georgia

The Joint Southeastern Stormwater and Erosion Control Conference combines the Southeastern Stormwater Management Conference and the Southeast Chapter of the International Erosion Control Association Annual Conference into one information-filled meeting for educators, agency personnel and practitioners. It is a forum to address specific issues facing the Southeastern US and to share successful programs and strategies to reduce non-point source pollution. The conference will be held at the Wyndham Peachtree Conference Center, a natural oasis located 30 minutes from downtown Atlanta in Peachtree City, a master planned community with a strong conservation ethic.

More information at:

<http://www.ieca.org/Chapter/southeast/southeasthome.asp>

Basic Erosion and Sedimentation Control Planning and Design Workshops

For the latest on Fall 2005 workshop date and location information please go to:
<http://www.ncsu.edu/wri/erosionseminars.html>

These workshops are structured to acquaint design professionals with the NC Sedimentation Pollution Control Act, the rules implementing the Act, and design standards for erosion and sedimentation control BMPs. Professional engineers and land surveyors can earn 12 PDHs, and landscape architects can earn 10 continuing education units for completion of both days.

Sponsored by the N.C. Sedimentation Control Commission, the NC Land Quality Section, and the Water Resources Research Institute.

Sediment & Erosion Control

Latest Information with Hands-On Demonstrations October 18, 2005

Sediment & Erosion Control Research & Education Facility
Raleigh, North Carolina

More information at:

<http://www.soil.ncsu.edu/swetc/sediment2/main2.htm>

ADDRESS SERVICE REQUESTED

Newsletter of the North Carolina Sedimentation Control Commission
c/o Water Resources Research Institute
of the University of North Carolina
Box 7912, North Carolina State University
Raleigh, NC 27695-7912

SEDIMENTS

NONPROFIT ORG
U.S. POSTAGE
PAID
RALEIGH, NC
PERMIT NO. 549