

SEDIMENTS

State of North Carolina
Department of Environmental Quality

Division of Energy, Mineral, and Land Resources
Brian Wrenn, Director

ABOUT SEDIMENTS

SEDIMENTS is a newsletter published by the North Carolina 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.

SEDIMENTS is available in electronic form at:

<https://deq.nc.gov/SEDIMENTS>

And via the WRI Sediments listserv. To subscribe follow the directions at:

<https://wri.ncsu.edu/contact-us/listservs/>

Send comments to the [Sediment Education Specialist](#).

2022 Local Erosion and Sedimentation Control Programs Workshop & Awards Program

Presented by:

NC Department of Environmental Quality - Land Quality Section

In partnership with:

Water Resources Research Institute
of the University of North Carolina System

This year the annual Local Programs Workshop and Awards Program was presented via a hybrid format on April 19-20, 2022, at the Union County Agricultural Center in Monroe. This annual workshop brought together delegates from a majority of the 55 local programs throughout the state. Approximately 80 people attended both days in person, and approximately 90 people attended the virtual workshop on April 19th and approximately 80 attended the virtual workshop on April 20th. The workshop was focused on regulatory updates, research updates, local program audits, and plan review, inspection and enforcement topics and the keynote speaker was NCDEQ's Secretary Elizabeth Biser. *(continued on page 2)*



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Top Left: Local Program and DEMLR staff participating in the board game networking event. Top Right & Bottom: NCDEQ Secretary Biser's keynote address. Photo credit: Rebecca Coppa, NCDEQ DEMLR

2022 Local Programs E&SC Workshop & Awards Program

Durham County and Haywood County Win Awards for Excellence in Erosion and Sediment Control

(continued from page 1)

Support for the Workshop and Awards Program is provided by the North Carolina Sedimentation Control Commission, NC Department of Environmental Quality, Division of Energy, Mineral, and Land Resources, Land Quality Section, and the Water Resources Research Institute of the University of North Carolina System.

Local erosion and sediment control programs have the ability to exercise greater control over erosion and sediment control in their respective jurisdictions and may often inspect sites more frequently than the state erosion and sediment control program. Furthermore, local erosion and sediment control program ordinances may be more restrictive than state law, giving additional control over erosion and sedimentation control during the development occurring within their respective jurisdictions. The North Carolina Sedimentation Control Commission recognizes the importance and the value of local erosion and sediment control programs in controlling pollution by sedimentation to the waters of North Carolina. In addition to training, the Annual Local Programs Workshop seeks to recognize outstanding local programs. Each year awards of excellence are presented to programs in two categories:

- Small program – program providing 0-3 man-years or full-time equivalents supporting erosion and sediment control
- Large program – program providing 3+ man-years or full-time equivalents supporting erosion and sediment control

This year, Haywood County received

the Local Program Award for Excellence for a small program. Haywood County administers and enforces erosion and sediment control for all unincorporated areas of the county along with the towns of Clyde and Maggie value and has two full-time equivalent positions that oversee approximately 30 projects that exceed their 1/2 acre threshold for requiring a plan. Some noteworthy aspects of this program include their communication efforts with the community, groups involved in land disturbances, and other agencies that they work with; their creation of brochures on various best practices; and the technical advice that they provide, particularly after Tropic Storm Fred impacted their county on August 17, 2021.

More information on Haywood County's Erosion and Sediment Control Program can be found at:

www.haywoodcountync.gov/184/Land-Disturbing-Activities

This year, Durham County received the Local Program Award for Excellence for a large program. Durham County oversees the enforcement of erosion control for all of the county including the City of Durham itself. They have 3.5 full-time equivalent positions that oversee just under 250 projects. Some notable attributes of this program include their electronic plan submittals, reviews, and payments; that they require phased erosion control plans in critical watersheds, and that they are tough but consistent on enforcement using a enforcement tree/flowchart for decisions.

More information on Durham Coun-

ty's Erosion and Sediment Control Program can be found at:

<https://www.dconc.gov/environment/storm-water-and-erosion-control>

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

The programs that were nominated for the awards this year include:

Small Program Nominees:

- Guilford County
- Haywood County

Large Program Nominees:

- Durham County
- Wake County



Haywood County receiving their award

From L to R: Julie Coco of NCDEQ, and Tim Surrett and Cole Sutton of Haywood County.



Durham County receiving their award

From L to R: Brad Cole, Brian Wrenn, and Julie Coco of NCDEQ, Rob Stewart and Jonathan McNeill of Durham County, and Toby Vinson of NCDEQ.

Hurricane Weather Advisory for Construction Sites

Act Now to Reinforce your BMPs to Prepare for Multiple Impacts

By Julie Coco, PE, DEQ-DEMLR, State Sediment Program Engineer

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As we once again enter hurricane season, there exists the possibility that sites in development will be adversely impacted, regardless of the measures that are in place to control stormwater and sediment runoff. However, proper planning can minimize damage and the work effort to restore the site to pre-storm conditions. Below are some suggestions for pre-storm preparation, and conditions under which land-disturbing activities may be necessary.

Suggested Actions Prior to the Storm Include:

- Cease any new grading or land disturbances that will not be paved or otherwise structurally stabilized. The freshly exposed bare soil will not have time to stabilize prior to the storm.
- Secure any construction materials that may become airborne during the storm.
- Haul away waste materials.
- Seal and secure or otherwise protect containers holding equipment fluids, liquid building material waste, flocculants, herbicides, pesticides, rodenticides, or other hazardous or toxic wastes from leaks or spills. Hazardous materials should be removed from the site if they cannot be contained in an enclosed building and stored away from windows.
- Dewater sediment basins in a manner permitted by your E&SC Plan Authority.
- Ensure emergency spillways on basins and traps are fully functional. Secure any loose filter fabric, rock, or liners.
- Clean out culverts, outfalls, inlets, ditches, or other conveyances as needed to prevent clogging. Ensure outfalls are stabilized per your approved plan.
- Catch basins or curb inlets with inserts used to filter sediment from the storm drain system can be temporarily removed to prevent street flooding.
- Complete, as time permits, any restoration efforts underway in streams, buffers, wetlands, etc.
- Secure or temporarily remove document boxes and their contents.

After the Storm:

- Do not touch any downed powerlines or equipment in contact with powerlines.
- Avoid driving or working in flooded areas or non-workable soils. Be on the lookout for washed-out or undermined roads. Avoid bodily contact with floodwaters.
- Check and record rain gauges. If the gauge has been damaged, document the reasoning for it and why you are unable to obtain an accurate reading from this source. Precipitation estimates for your region may be found online.
- Report any spills, sediment releases into jurisdictional waters, unanticipated bypasses to stormwater devices, upsets, or non-compliance issues that may endanger health or the environment to the appropriate DEQ Regional Office within 24 hours of discovery.
- Repair or replace damaged waste or fluid containers.
- Clean and reinstall any catch basin or curb inlet inserts removed prior to the storm.
- Clean up off-site sedimentation immediately (excluding that released into riparian buffers or jurisdictional waters needing a restoration plan).
- Reinstall the document box, if removed prior to the storm.
- Remove debris from culverts, outfalls, inlets, ditches, or other conveyances on the project, and evaluate for stability. Make necessary repairs.
- Repair any damaged erosion and sediment control measures to restore their full functionality in accordance with the plan.

Emergencies:

Repairs made to protect human life, and which involve land-disturbing activities are considered emergency repairs. Such repairs may be made without prior approval. In accordance with 15A NCAC 04B.0130, you shall notify the DEQ Director of the Division of Energy, Mineral and Land Resources, or his/her designee, of such repairs as soon as reasonably possible, but in no event later than five (5) working days after the emergency ends. Additionally, you shall take all measures necessary to protect all public and private property from damage caused by your repair as soon as possible, but no later than fifteen (15) working days after the emergency ends. Under emergency conditions, approval without a permit may be given on a case-by-case basis to discharge pumped stormwater to surface waters in an effort to minimize flooding. The definition of "Emergency Conditions" is water on streets at a depth of 14 inches that restricts emergency vehicles from responding to the needs of the public. Contact the DEQ office in your region for assistance.



Drones & DEMLR

By Rebecca Coppa, DEQ-DEMLR, Sediment Education Specialist

Drones, or unmanned aerial vehicles (UAVs), can aid in many areas of DEMLR's day-to-day and emergency response operations. For example drones can be used to help gather more information and to help cover large areas quickly during on site inspections. Drones can also aid in [landslide mapping](#) in western North Carolina. As the potential uses for drones grow, so does the need for DEMLR staff to be trained in their use. With the help of trainers from NCDOT and Airvision LLC., DEMLR is working towards increasing the number of staff trained and licensed to use drones on the job. Below are some pictures from the training session held on June 3, 2022, for Central Office DEMLR staff.



Photo credit: Indyah Bryant and Josh Kastrinsky, NCDEQ Office of Public Affairs.

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 the 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 they remain Director. The chairman of the SCC is named by the Governor.

Chair:

Dr. Susan White
Water Resources Research Institute

Commissioners:

Ms. Susan Foster
NC Home Builders Association

Ms. Marion Deerhake
NC Environmental Management Commission

Mr. Michael Taylor
Associated General Contractors

Mr. Michael D. Willis
NC Soil and Water Conservation Commission

Mr. Benjamin Brown
NC League of Municipalities & Association of County Commissioners

Dr. Rich McLaughlin
NCSU, Dept. of Soil Science

Mr. Mark Taylor
Professional Engineers of NC

Mr. Hartwell Carson
Non-governmental Conservation

Ms. Emily Sutton
Non-governmental Conservation

Ms. LeToya Ogallo
NC Public Utilities

Mr. Robert Jason Conner
NC Mining Commission

NC Sedimentation Control Commission: February Actions

At its virtual meeting on February 22, 2022, the NC Sedimentation Control Commission (SCC) took the following actions:

Delegated Local Programs

- County of Macon: Voted to continue their delegation authority.
- City of High Point: Voted to place the program on probation for a period of three months.
- City of Rocky Mount: Voted to continue delegation of the program under review for another three months.
- City of Greensboro: Voted to continue their delegation authority.
- Town of Knightdale: Voted to approve the Town's ordinance and to approve delegated authority.

NC Sedimentation Control Commission: May Actions

At its hybrid meeting on May 19, 2022, the NC Sedimentation Control Commission (SCC) took the following actions:

Delegated Local Programs

- City of High Point: Voted to continue delegation of the program conditioned on their ordinance being updated and adopted by the Nov. 15, 2022, SCC meeting.
- City of Wilson: Voted to continue the program's probation for another three months.
- City of Henderson: Voted to continue delegation authority.

- City of Raleigh: Voted to continue delegation authority. (Ben Brown recused himself from the discussion and vote.)
- City of Rocky Mount: Voted to continue delegation authority.

Upcoming SCC Meetings

Thursday, Aug. 18, 2022

Tuesday, Nov. 15, 2022

All meetings are at 10:00 am
Training Room
Green Square
217 W. Jones Street Raleigh, NC

Schedule and location of meetings is subject to change. Public notice of any changes will be given pursuant to NCGS 143-318.12

NC Sedimentation Control Commission and Committee Information

The SCC currently has three active subcommittees, including the Civil Penalty Remissions Committee, the Commissions Technical Committee, and the Ad-hoc Committee. The SCC also plans to reform the Education Committee in the near future and those interested in serving on the education committee should contact NCDEQ-DEMLR-E&SC Central Office Staff:

<https://deq.nc.gov/about/divisions/energy-mineral-and-land-resources/contact-demlr>

Meeting dates, times, location information and materials for scheduled meetings of the SCC and its Committees can be found on the SCC's website:

<https://deq.nc.gov/about/divisions/energy-mineral-land-resources/sedimentation-control-commission>

Project WET's Climate, Water and Resilience Educator Guide

By Rebecca Coppa, DEQ-DEMLR, Sediment Education Specialist

Project WET, or Water Education Today, is an international water education foundation with the mission of “advancing water education to understand global challenges and inspire local solutions.” Project WET has been researching, writing and publishing award winning water education materials since 1984. Their newest publication is the Climate, Water and Resilience (CWR) Educator Guide. The activities in this guide are aligned to standards, and help formal and non-formal educators teach middle school, high school students and adults about climate and climate change using interactive, objective, science-based activities. The lessons in this guide are stand-alone activities and can be taught modularly, however, information builds between activities so it is recommended that they be taught in sequential order.

While many of Project WET's education materials are available on their website, www.projectwet.org, the Project WET CWR Guide is only available by completing the online training or attending a training session with one of the Project WET Coordinators/Facilitators. In North Carolina, Project WET is housed within DEQ's Division of Water Resources' Education Program. Upcoming Project WET NC Workshops can be found on DWR's website:

<https://deq.nc.gov/about/divisions/water-resources/water-resources-training/public-involvement/project-wet>

So, if you want to learn how to teach about climate/climate change using interactive activities while making it place-based sign up for a workshop today!

Who Do I Call?

If you have questions or concerns related to erosion and sedimentation control or off-site sedimentation from construction in NC contact the appropriate local program, regional office, central office or the toll-free hotline.

Local program information:

<https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/local-government-programs>

Toll-Free Hotline:
1-866-STOPMUD



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

Asheville Regional Office
Phone: (828) 296-4500

Regional Engineer:
Stanley Aiken

Fayetteville Regional Office
Phone: (910) 433-3300

Regional Engineer:
Tim LaBounty

Mooresville Regional Office
Phone: (704) 663-1699

Regional Engineer:
Zahid Khan

Raleigh Regional Office
Phone: (919) 791-4200

Regional Engineer:
Bill Denton

Washington Regional Office
Phone: (252) 946-6481

Regional Engineer:
Samir Dumpor

Wilmington Regional Office
Phone: (910) 796-7215

Regional Engineer:
Dan Sams

Winston-Salem Regional Office
Phone: (336) 776-9800

Regional Engineer:
Tamera Eplin

Raleigh Central Office
Archdale Building
Phone: (919) 707-9220