



Annual Report of Activities

YEAR 5 / MONTH 2012 - 2013

SEPTEMBER 2013





Executive Summary

The Richland County Stormwater Consortium has reached the 5 year mark! 2012-2013 was another successful year with a wide variety of programming provided to reach diverse audiences about critical pollutants in Richland County streams, rivers and lakes. RCSC partners worked hard in 2012-2013, guided by the Three-Year Stormwater Education and Involvement Strategic Plan developed in 2012.

In 2012-2013, RCSC's public involvement activities gained strength and popularity. Participation in volunteer litter cleanups and household hazardous waste collections grew greatly over the previous year. Local schools also did their part, with fifteen schools installing rain barrels for hands-on learning as well as stormwater control.

The use of online media was also improved this past year. The Carolina Clear website received a face-lift, and Facebook pages, Twitter feeds, a web-based fact sheet series, and a new monthly e-newsletter were all part of RCSC's online efforts this year.

Commercial and residential landscaping, and the associated pollutants nutrients and pesticides, were a priority this year. Outreach to commercial landscapers included workshops, trainings and bilingual outreach materials, to effectively reach both supervisors and crews. For home gardeners, a four part Backyard Landscaping series was held, stressing environmentally friendly principles from RCSC's Carolina Yards program.

A new effort was begun to reduce the top priority pollutant fecal bacteria. A major source of fecal bacteria in Richland County is sanitary sewer overflows (SSOs), which are difficult to impact with education because the public has limited control over sewer systems. Discussions with sanitary sewer providers revealed that disposal of cooking oil and grease down drains is a frequent cause of SSOs, and citizens often don't recognize the necessity or lack the information needed to promptly report SSOs when they occur. Discussions were held to determine ways to educate the public on these issues, and the ideas generated will be implemented in the upcoming year.

Looking forward to 2013-2014, an important goal for the upcoming year is to partner with builders and developers to use Low Impact Development practices including bioretention, pervious pavement and rainwater harvesting. As Richland County grows, developers can make a difference by providing for growth that is sustainable, economically valuable, and protects water quality. RCSC will continue to reach out to all citizens and businesses in as many ways as it can to involve them in efforts that protect local rivers and streams.



QUINTON EPPS
*Richland County
Stormwater Manager*

Another exciting year for the Richland County Stormwater Consortium! We are continuing to spread the word about stormwater and its relationship to water and life quality. Our programs are becoming more and more focused on source reduction and long term stormwater solutions which will improve water quality as well as enhance access and water resource amenities. We are looking forward to the coming year of stormwater education and outreach programs.



Year 5 Highlights

- The number of volunteers participating in litter cleanups increased by 50% over the previous year, removing over 102,800 pounds of trash and debris from Richland County rivers, streams, lakes, and ditches (p. 22-23).
- Richland County assisted teachers in installing rain barrels at fifteen public and private schools throughout the county, as part of ongoing Green Steps School projects, school gardens and outdoor classrooms (p. 25-26).
- At 4-H₂O summer day camps, 39 students studied water quality and enjoyed swimming, hiking, canoeing, and exploring Lake Murray and the rivers, streams, and wetlands of Richland and Lexington Counties (p. 17).
- The third annual Summer Celebration of Water family festival brought over 1200 people together to kayak, slide, splash and learn why our rivers and lakes matter to the Midlands and what residents can do to protect them (p. 13).
- The Carolina Yards Backyard Landscaping four-part speaker series brought homeowners together to learn about environmentally friendly gardening principles (p. 20).
- The *Watershed Moments* e-newsletter was launched in January, and reaches over 100 people each month with news and information about protecting Richland County Waterways (p. 6).

TOTAL OUTREACH ACTIVITIES AND TOTAL NUMBER REACHED (*estimated*)

1. Television and video: 16,457 reached
2. Radio: 330,000 reached
3. Publications, newsletters and articles: 136,453 reached
4. Websites and social media: 9,557 reached
5. Brochures and outreach materials: 1,400 reached
6. Festivals and events: 5,164 reached
7. Exhibits and displays: 33,628 reached
8. Presentations: 3,884 reached
9. Council and committee meetings: 25 reached
10. Conferences: 37 reached
11. Trainings: 916
12. Workshops: 347 reached
13. Community cleanups: 4,436 reached
14. Public involvement (other): 2,008 reached



Table of Contents

Executive Summary	1
Community Partners	1
Education Partners	2
Mission and Goals	3
Public Education	
Indirect Outreach Methods	
Internet	4
Radio and Television	5
Publications	6
Outreach Materials-Brochures, Booklets, Manuals	7
Watershed Highlights	
Congaree Riverkeeper	8
Gills Creek Watershed Association	9
Rocky Branch Watershed Association	10
Direct Outreach Methods	
Fairs, Festivals and Events	11
Youth Activities	14
Professionals: Contractors, Engineers and Developers	18
Elected and Appointed Officials	19
Homeowners	20
Commercial Citizens	21
Public Involvement	
Litter Sweeps	23
Water Quality Monitoring	24
Recycling Events	25
Rain Barrel Workshops	25
Youth Involvement Activities	26
RCSC Year 3 Summary	27
Appendices	
Appendix A - Articles	28
Appendix B - Year 5 Event Data	31
Appendix C - Year 6 Education Plan	39
Appendix D - Partner Websites	44



Community Partners

The Richland Countywide Stormwater Consortium includes Richland County, the City of Forest Acres, and the Town of Arcadia Lakes. These three municipalities operate MS4s (Municipal Separate Storm Sewer Systems), regulated by South Carolina Department of Health and Environmental Control (SCDHEC), Arcadia Lakes and Forest Acres being co-permittees with Richland County. They are committed to a regional effort to provide stormwater education and public outreach and opportunities for public involvement and participation in stormwater pollution prevention. By working regionally, the county, city and town are able to accomplish far more than they would independently.

Community Partners

Municipality & Position	Representative
RICHLAND COUNTY	
County Administrator	W. Anthony McDonald
Stormwater Manager	Quinton Epps
Stormwater Education	Herman K. Anthony, Chenille Williams
Environmental Planning	James "Buddy" Atkins
Sustainability	Anna Lange
Public Information	Stephany Snowden
CITY OF FOREST ACRES	
Administrator	Mark Williams
Assistant Administrator	Jake Broom
TOWN OF ARCADIA LAKES	
Mayor	Richard Thomas
Town Clerk	Christine Murphy





Education Partners

The Richland Countywide Stormwater Consortium's education partners include government agencies, non-profit and community organizations, and businesses who share the consortium's mission of providing education to the public on stormwater issues throughout the county. RCSC is very grateful to everyone who has made the last five years of stormwater education and public involvement successful. Richland County Forest Acres, Arcadia Lakes and all of our education partners have a lot to be proud of. So do the citizens of Richland County who are doing their part and showing they care about clean water!



KEEP THE MIDLANDS BEAUTIFUL



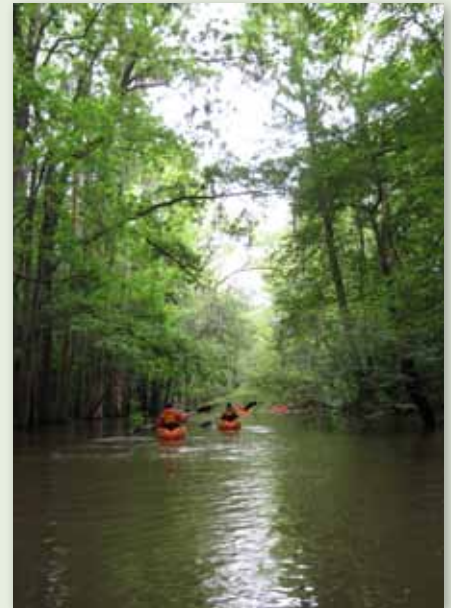


Mission and Goals

MISSION STATEMENT

Support the restoration and protection of healthy waterways in Richland County through outreach, stormwater education, public involvement and partnerships with local governments, citizens, businesses, schools and organizations.

1. Maximize stormwater education efforts by using a regional/watershed approach. Develop and implement education strategies addressing the range of stormwater pollutants using a prioritized approach that capitalizes on local training resources.
2. Involve citizens in stormwater management and change behaviors to improve environmental protection and awareness.
3. Facilitate collaboration among local organizations interested in watershed-related education to best meet the needs of local communities.
4. Through partnerships with MS4s, leverage local education resources and organized outreach programs to meet NPDES permit requirements for public stormwater education and outreach to achieve greater water resource protection.
5. Participate in collaborative stormwater education that can be universally presented and applied.



“Water links us to our neighbor in a way more profound and complex than any other.”

John Thorson



Public Education

Internet and Social Media

LEAD PROVIDER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear	Richland Countywide Stormwater Consortium website	Ongoing	2,130 page views	General Public
Many (see table below)	Consortium partners Facebook pages	Ongoing	7,173 "fans," total	General Public
Congaree Riverkeeper	Riverkeeper Twitter feed	Ongoing	270 followers	General Public

FACEBOOK PAGES	NUMBER OF "LIKES"
Carolina Children's Garden	124
Congaree National Park	1,234
Congaree Riverkeeper	1,693
Gills Creek Watershed Association	293
Keep the Midlands Beautiful	1,231
Rocky Branch Watershed Alliance	396
Richland Countywide Stormwater Consortium	148
Richland County Soil & Water Conservation Commission	58
Richland County Soil & Water Conservation District	39
Richland County Stormwater Management	29
Rocky Branch Watershed Alliance	384
Sustainable Carolina (USC Green Quad)	651
Sustainable Midlands	871



All Richland Countywide Stormwater Consortium partners maintain websites and Facebook pages to share information widely over the internet. The Carolina Clear website now has an updated look for easier navigation and visual appeal. Daily Facebook posts keep audiences engaged and provide a forum for discussion and feedback. The total number of Facebook page "likes" increased by 38% over last year, and website views increased by 17%. The Congaree Riverkeeper also started a Twitter feed this year, and has 270 "followers." A list of our education partner websites can be found in Appendix C.



Public Education

Television/Video

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Richland County Stormwater	Carolina Clear	Television PSAs on pesticides, fertilizers, pet waste, trash, sediment	Currently in production	N/A	General Public
Clemson University	Carolina Clear	Water quality segments on <i>Making It Grow</i> television show on ETV.	1/1/13 & 2/5/13	16,457 each episode	General Public



TELEVISION: Richland County is in the process of developing a series of television public service announcements on water quality topics, including littering, yard care, pet waste, and construction runoff. The commercials will be completed by early Fall 2013 and will air on the Richland County cable channel and on YouTube.com.

In 2013, two episodes of Clemson University's Making It Grow television gardening program featured information about water quality, with interview from Carolina Clear staff. Making It Grow airs on Tuesdays at 7:00 PM.

Radio

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Richland County Stormwater	Carolina Clear	Interviews on <i>Richland Radio</i> program on WGCV AM 620	Multiple interviews	300,000 potential audience	General Public
Clemson University	Carolina Clear	Water quality segments on <i>Your Day</i> radio program on ETV Public Radio	6 segments	30,000 listeners	General Public



RADIO: Richland Radio is a weekly program on WGCV 620 AM that shares news, events, and topics of interest with Richland County citizens. Stormwater staff use this program to promote upcoming stormwater events and programs, such as Summer Celebration of Water and the Carolina Yards program.

On a statewide level, Clemson University's Your Day radio program covers a wide range of topics for the public. Six segments throughout the year focused on water quality. Topics included pet waste, fertilizer, rain barrels, rain gardens, shorelines and other water quality issues.



Public Education

Publications

NEWSPAPER, MAGAZINE AND ONLINE ARTICLES

LEAD PROVIDER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Gills Creek Watershed Association	Articles in <i>The State</i> newspaper	6/4/13	Circulation 96,737 each article	General Public
SC Department of Agriculture	<i>South Carolina Market Bulletin</i> featured an article on rain barrels	3/21/13	Circulation 20,000	General Public
Carolina Clear	H2Ownership fact sheets on HGIC website (six fact sheets total)	Ongoing, from Sept. 2012	2,422 views	General Public
Carolina Clear	Article on the Carolina Yards program in <i>Carolina Gardener</i> magazine	Sept. 2012	12,000	Homeowners

In September 2012, Carolina Clear introduced a new online fact sheet series called H2Ownership. Located on the Clemson Home and Garden Information Center (HGIC) website (www.clemson.edu/hgic), these fact sheets help make the connection between actions at a person's home and water quality.

In January 2013, RCSC produced its first Watershed Moments e-newsletter. This monthly newsletter keeps readers up to date on recent and upcoming programs as well as local water quality related news. In addition, Richland County's Weekly Review frequently features information related to water quality and environmentally friendly topics.



NEWSLETTERS

LEAD PROVIDER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear	<i>Watershed Moments</i> e-newsletter	Monthly, from Jan. 2013	109	General Public
Richland County Stormwater	Stormwater information featured in <i>Richland Weekly Review</i> employee newsletter	Weekly	4,000	General Public
GCWA	Gills Creek Watershed Association newsletter	Monthly	585	General Public
Congaree Riverkeeper	Congaree Riverkeeper <i>River Watch</i> newsletter	Monthly	600	General Public

Brochures, Booklets, Manuals

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear		Pet waste brochures distributed to veterinary offices & pet supply stores	Ongoing	20 businesses, 800 brochures	General Public
Richland County Animal Care		Pet waste brochures distributed with pet registration renewals	Ongoing	300	General Public
Carolina Clear	Richland County Stormwater	Handouts in English and Spanish distributed landscaping businesses and employees	Ongoing from Jan. 2013	200	Commercial
Richland County Stormwater	Carolina Clear	Miscellaneous brochures on stormwater topics distributed	Ongoing	Not assessed	General Public

Commercial landscapers are an audience that can be hard to target because a large percentage of staff may not speak English as a first language. A common issue with landscapers is that they may blow leaves and grass clippings into storm drains, causing clogs and adding nitrogen and phosphorous to the water as the debris decays. To help this audience understand the issue, a door hanger style handout was created in both English and Spanish. This handout was distributed by Richland County Stormwater staff as part of pesticide, herbicide and fertilizer inspections.

Pet waste tri-fold brochures, distributed through veterinary offices, pet supply stores, and Richland County Animal Care continue to be an important component in efforts to reduce fecal bacteria. The pet waste brochure got an updated look this year to make it more eye-catching. Additionally, promotional items, brochures and handouts on a wide range of topics were distributed at fairs, festivals, and events throughout the year.



Congaree River

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Congaree Riverkeeper	Many	River Rocks festival	4/13/13	1,000	General Public
Congaree Riverkeeper		Public presentations on the Congaree River Watershed	5 presentations	117	General Public



The Congaree Riverkeeper works to protect and improve water quality, wildlife habitat, and recreation on the Congaree, Lower Saluda and Lower Broad Rivers through advocacy, education and enforcement of environmental laws. These rivers are vital to the Midlands, bringing in fishing, boating and outdoor enthusiasts and building tourism. The Riverkeeper uses social media, festivals and other events to engage the public and build a dialog about the importance of protecting our natural resources. They work closely with the on-the-water recreation community to give them a voice and help them interface with local leaders about current issues important to water quality in the rivers. They also organized several cleanups throughout the year, conduct quarterly monitoring at seven sites in the Congaree River watershed, and are frequently in the local media for their advocacy efforts.



Above, left to right: Water quality monitoring in Smith Branch; Riverkeeper display at the River Rocks festival; River Sweep 2012 on the Congaree River; cleanup along Rocky Branch on April 21, 2013.

Right: Citizens show their support for clean water at the River Rocks Festival.

Photo credit: Bill Stangler, Congaree Riverkeeper



Gills Creek Watershed

LEAD PROVIDER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Gills Creek Watershed Association	Public presentations on the Gills Creek Watershed	5 presentations	89	General Public
Gills Creek Watershed Association	Gills Creek Watershed Association annual meeting	11/8/12	35	General Public
Gills Creek Watershed Association	GCWA membership celebration	7/22/12	15	General Public
Gills Creek Watershed Association	Presentations to homeowner associations on Gills Creek watershed	3 presentations	53	Homeowners
Gills Creek Watershed Association	Wine for Water fund-raiser supporting GCWA	4/27/13	54	General Public
Gills Creek Watershed Association	Watershed Bird Count training and count as part of Great Backyard Bird Count	2/13/13 & 2/17/13	5	General Public



The Gills Creek Watershed Association is a non-profit membership organization dedicated to protecting and improving one of the largest impaired urban watersheds in South Carolina. The Gills Creek Watershed Association facilitates coordination between local governments, provides technical advice, and gives citizens a voice for protecting water quality in the watershed. In 2012-2013, GCWA education and outreach efforts include presentations for the general public and homeowner associations, informational displays at festivals and events, litter cleanups in the watershed, fund-raisers for various projects, and related activities.



Volunteers brave the heat at the quarterly Adopt-A-Highway cleanup on Lower Beltline Boulevard. Photo credit: GCWA



A watershed map at the Rooftop Rhythms festival in Forest Acres helps visitors understand their place in the watershed.



Guests show their support for GCWA's mission at the Wine For Water fund-raiser. Photo credit: GCWA



A Gills Creek display at the Sparkleberry Fair teaches what everyone can do to protect clean water.

Rocky Branch Watershed

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Rocky Branch Watershed Alliance		Public meeting on the Rocky Branch Watershed	8/20/12	40	General Public
Rocky Branch Watershed Alliance		Rocky Branch bus tour	9/24/12	Not assessed	General Public
Rocky Branch Watershed Alliance		Rocky Branch on the Rocks trivia night	4/22/13	20	General Public



The Rocky Branch Watershed is an urban watershed flowing through the City of Columbia, and includes Five Points, Maxcy Gregg

Park, University of South Carolina campus, and the Olympia neighborhood. The Rocky Branch Watershed Alliance was formed by Sustainable Midlands in December of 2011 to unite citizens in improving water quality, reducing flooding, and restoring the beauty of this urban stream. Heavy flooding in Five Points and Olympia is a key issue driving citizen involvement, as is planning for development in a way that protects the floodway. The Rocky Branch Watershed Alliance holds public meetings, meets with local leaders, organized cleanups, has displays at festivals, and uses other outreach methods to engage the public and local decision makers on protecting this urban watershed.



RBWA's "My River Starts Here" photo booth at Olympifest lets guests show off how much they love clean water.



USC students volunteer at the MLK Day of Service clean up Rocky Branch Creek in Martin Luther King Jr. Park.



Volunteers cleaned up Rocky Branch in Maxcy Gregg park in a joint project with the Congaree Riverkeeper.



RBWA outreach at Party for the Planet at Riverbanks Zoo.

Photo credits: RBWA

LET'S FIX IT NOW!
Rocky Branch Watershed

Fairs, Festivals and Events

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Conservation District, Carolina Clear		Display at Sandhills Farmers Market	8/28/12	13	General Public
Carolina Clear, GCWA	Forest Acres	Display at Rooftop Rhythms Festival	9/27/12, 10/25/12 & 4/18/13	9,500	General Public
Gills Creek Watershed Association	EdVenture Museum	Display at Farmville Festival	11/3/12	200	General Public
Gills Creek Watershed Association, Rocky Branch Watershed Alliance	Riverbanks Zoo	Display at Party for the Planet	4/20/13	150	General Public

Festivals and fairs offer great opportunities to reach a large number of people at one time. General events such as Sparkleberry Fair, attract a broad audience that may know little about environmental protection, while environmentally themed events, such as Party for the Planet, attract audiences already tuned into green issues and eager to learn more ways to make a difference. By drawing visitors with colorful displays and hands-on activities, such as the Enviroscope watershed model or live pond creatures, RCSC can build general awareness and provide detailed information on specific issues. Handouts and giveaways (see p. 7) remind visitors of what they learned after the event is over and can serve as prompts for behavior change. Festivals and events specifically for youth audiences are listed on page 16.



Kids learn about water quality with macroinvertebrates at Sparkleberry Fair.



The Enviroscope watershed model shows sources of pollution at the Rooftop Rhythms festival.



Gills Creek Watershed display at Party for the Planet at Riverbanks Zoo. Photo Credit: GCWA



Public Education

Fairs, Festivals and Events

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Rocky Branch Watershed Alliance		Display at Olympifest	4/20/13	100	General Public
Gills Creek Watershed Association		Display at Forest Lake Presbyterian Church Earth Sunday	4/21/13	50	General Public
Carolina Clear		Display at Big Nosh Festival	4/21/13	1,000	General Public
Richland County, GCWA, Carolina Clear, Conservation District	Master Gardeners	Displays at Sparkleberry Country Fair	4/27/13	20,000	General Public
Congaree Riverkeeper	River Runner	Information at River Runner 30th Anniversary Event	5/18/13	50	General Public
Carolina Clear, GCWA	Town of Arcadia Lakes	Display at Arcadia Lakes Town Picnic	5/19/13	100	General Public



At the Rooftop Rhythms festival, residents find their homes on a map of the Gills Creek Watershed.



Richland County Stormwater Services displays information and giveaways at Sparkleberry Fair.



Cocky and friends check out the Enviroscope watershed model at the Big Nosh festival in Forest Acres.

Fairs, Festivals and Events

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Richland County, City of Columbia, Lexington County, Carolina Clear	Many	Summer Celebration of Water family festival	8/25/12	1,200	General Public



The third annual Summer Celebration of Water was held on August 6th at Riverfront Park in Columbia. This free family event featured tubing, canoeing, and stand-up paddle boarding on the Columbia Canal, macroinvertebrate hunts in the Broad River, displays from local non-profits and green businesses, casting lessons, inflatable amusements, watershed information, kid's activities, and more. The event promotes appreciation and stewardship of local rivers, lakes and streams, and teaches the public how to protect the water. Summer Celebration of

Water is a partnership effort between Richland County, City of Columbia, and Lexington County. Nearly all of the RCSC education partners were involved in the festival as exhibitors or volunteers. With an estimated attendance of over 1,200 people, the festival is an excellent example of how much can be accomplished by combining resources and working together towards clean water for future generations.



Youth Activities

ACTIVITIES FOR ELEMENTARY SCHOOLS

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear	Richland County School Districts	Water quality presentations at Richland County schools	Ongoing	15 schools, 1,961 students	Youth
Carolina Clear	RC Recreation Commission	Enviroscape presentations for after school and summer programs	Ongoing	4 facilities, 103 students	Youth
Carolina Clear	Lutheran Family Services Carolinas	Watershed presentation for SPLASH refugee summer program	7/12/12	46	Youth
Conservation District		Enviroscape presentation for Boy Scouts	11/13/12	20	Youth
Congaree National Park		Linking Ecology and Art of Floodplains (LEAF) program for third graders	Fall 2012	50 teachers, 1,000 students	Youth
Carolina Clear		Macroinvertebrates for Catawba Trail Elementary Nature Navigators club	4/9/13	18	Youth

To increase the variety of in-school presentations, Carolina Clear introduced a new macroinvertebrate lesson for elementary schools. Our newest education partner, Congaree National Park, coordinates a program for third graders titled *Linking Ecology and Art of Floodplains*, which reaches over 1,000 students and over 50 teachers each fall. The *Enviroscape* watershed model continues to be a go-to activity for after school groups, scouts, and summer programs.



Third graders study macroinvertebrates at Bridge Creek Elementary Science Day.



The Enviroscape teaches students at Catawba Trail Elementary about sources of pollution in a community like their own.



The Nature Navigators club at Catawba Trail Elementary visits the pond at Sandhill REC to study macroinvertebrates.

Youth Activities

ACTIVITIES FOR MIDDLE AND HIGH SCHOOLS

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
GCWA, Carolina Clear	Richland County	Future City project and competition (classroom presentations, local BMP tours, mentoring)	Sept. 2012-Jan. 2013	80	Youth
Many		SC Envirothon competition	4/3/13	18 teams, 90 students	Youth
Conservation District		SC Envirothon competition: three Richland County teams sponsored	Spring 2013	15 students	Youth

Students at Dent Middle School participated for the first time this year in the Future City Competition, which challenges students to design cities of the future around a particular civic issue. The issue for the 2013 competition was stormwater, so the school turned to RCSC partners for help. Carolina Clear, Gills Creek Watershed Association, Richland County Stormwater staff, and others mentored students on managing water quality and quantity in an urban landscape. Students took a walking tour of stormwater best management practices near their school, including a stormwater pond and a rain garden. They also built models of their city using recycled materials. Several students said that this experience inspired them to consider environmental careers for when they grow up.



ACTIVITIES FOR HIGHER EDUCATION STUDENTS

Congaree Riverkeeper	USC	Guest lecturer at USC on watershed and water quality topics	10/3/12 & 11/20/12	26	Youth
GCWA, RBWA	USC	Display at USC April Showers event	4/3/13	15	Youth

ACTIVITIES FOR TEACHERS

Congaree National Park		2012 South Carolina Outreach and Informal Educators Summit (SCOIES) meetings	1/9/13, 3/27/13	40	Teachers
------------------------	--	--	-----------------	----	----------

Youth Activities

SPECIAL EVENTS

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Richland County	KMB, Lexington County, City of Columbia	Rain barrel art contest for students	Fall 2012	200	Youth
Richland County Stormwater	Carolina Clear	Display at Richland 101 for Kids Day	7/26/12	1,500	Youth
Carolina Clear	Catawba Trail Elementary School	Kayak trip for Nature Navigators club	5/4/13	29	Youth
Richland County Solid Waste	Conservation District, Sustainable Midlands, Carolina Clear	Richland Recycle Day kids event	5/17/13	350	Youth
Richland County Stormwater	Department of Public Works Divisions	Public Works Week kids day event	5/21/13	180	Youth

In the fall of 2012, Lexington County, Richland County, and the City of Columbia, in partnership with Keep the Midlands Beautiful, hosted a Carolina/Clemson rain barrel art competition starting in September with a call to schools for designs and ending with an online charity rain barrel auction that closed November 30. The People's Choice Award went to White Knoll Art National Honor Society (near right) while the Judges' Choice Award went to Chapin High School (far right). In addition to bragging rights, both teams will get a \$300 prize. Proceeds from the online auction will go to benefit Keep the Midlands Beautiful's Adopt-A-Waterway program and the 2013 Summer Celebration of Water.



Stormwater Jeopardy at Richland County Public Works Week kids day.



Enviroscape watershed demonstration at Richland 101 for Kids.



Richland County Recycle day included a special kids event this year where kids visited booths on green topics.



Carolina Clear took the Nature Navigators Club from Catawba Trail Elementary on a kayak trip at Congaree National Park.



Public Education



Youth Activities

4-H2O SUMMER PROGRAMS

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear	4-H Program	4-H2O Pontoon Classroom on Lake Murray	6/11/12-6/15/12	20	Youth
Carolina Clear	4-H Program	4-H2O Environmental Classroom at Harbison State Forest	6/25/12-6/29/12	19	Youth



4-H2O summer programs are unique opportunities for youth ages 11-14 to learn about water quality through hands on experience and fun. At 4-H2O Exploring Lake Murray, students explored the lake on pontoon boats from the Lake Murray Association, swam every day, toured the Coast Guard Auxiliary station and water treatment plant, caught fish with a seine net, and conducted their own chemical and biological water quality tests. At 4-H2O Exploring the Congaree Watershed, based out of Harbison State Forest, students canoed at Congaree National

Park, caught critters in a stream at Gibson Pond Park, toured a fish hatchery and SCE&G's water quality lab, hiked, identified trees, and dissected fish. These camps would not be possible without partnerships with local businesses, parks, community organizations and state agencies who donated their time and resources to teach these kids the importance of clean water. Thank you!





Public Education

Professionals: Contractors, Engineers, Developers PRESENTATIONS AND DISPLAYS

LEAD PROVIDER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear	Booth at South Carolina Water Resources Conference	10/11/12-10/12/12	300	Professionals



2012 S.C. Water Resources Conference

Exploring Opportunities for Collaborative Water Research, Policy and Management

The third biennial South Carolina Water Resources Conference was held in Columbia October 10-11, 2012. The conference is coordinated by Clemson University's Center for Watershed Excellence (www.clemson.edu/watershedcenter). The conference provides a

forum for academics, public water managers and private consultants to come together to discuss water policies, research projects and water management in order to prepare for and meet the growing challenge of providing water resources to sustain and grow South Carolina's economy, while preserving our natural water resources.



TRAININGS AND CERTIFICATIONS

Clemson University	CEPSCI (Certified Erosion Prevention and Sediment Control Inspector) courses	10 trainings	840	Professionals
Clemson University	CSPR (Certified Stormwater Plan Reviewer) courses	2 trainings	46	Professionals
Richland County Stormwater	Internal storm water management training for Richland County staff			Professionals



CEPSCI and CSPR are courses from Clemson University that educate stormwater professionals on the proper design and review of stormwater and sediment control plans for development sites and on the proper installation, maintenance and inspection of erosion prevention and sediment control

measures at construction sites in order to meet regulatory and environmental requirements. Five initial and seven recertification trainings were held in Columbia this year. Both courses have recently been updated to meet the requirements of South Carolina's new Construction General Permit.

DATE	NUMBER ATTENDING
CEPSCI INITIAL TRAINING	
09/07/2012	94
12/05/2012	96
03/13/2013	120
05/24/2013	129
CEPSCI RECERTIFICATION	
11/08/2012	33
11/28/2012	35
12/18/2012	69
04/12/2013	54
05/23/2013	76
04/11/2013	134
CSPR INITIAL TRAINING	
05/29/2013	17
CSPR RECERTIFICATION	
05/29/2013	39

Elected and Appointed Officials

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Richland County Stormwater		Council Retreat - update on Countywide Watershed Improvement Plan request and Mitigation Projects	1/25/13	25	Elected Officials
Richland County Stormwater		Flooding issue updates to council member and staff	2/13/13	6	Elected Officials
Richland County Stormwater	Carolina Clear	Displays at Richland County Administration Building for Earth Day and Public Works Week	4/23/13 & 5/7/13	70	Elected Officials

Richland County Council and county staff make many decisions that impact how stormwater is managed, both for quantity and quality concerns. Flooding is a problem in many parts of the county, and Richland County has a number of waterways that are impaired (or not suitable for fishing and recreation) because of bacteria and other pollutants. Helping county leadership to understand the technical aspects of the concerns presented to them by citizens, and their options for resolving them, is vital to their decision-making process.

During the past year, Richland County developed an Open Space Ordinance, which replaces the Green Code. This ordinance provides incentives for developers that want to use Low Impact Development (LID) practices in new construction projects. These LID practices might include bioretention, pervious pavement, rainwater harvesting, green streets, etc. To qualify for incentives, the developments must also include preservation of natural and open spaces and stream buffers. In the upcoming year, RCSC will work to further engage the development community in the use of LID techniques and open space development to improve water quality in Richland County.





Public Education

Homeowners

CAROLINA YARDS & NEIGHBORHOODS

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear		Presentations on the Carolina Yards recognition program	10/10/12, 1/25/13	28	Homeowners
Richland County Stormwater	Richland County Planning	Carolina Yards display at the Richland County Neighborhood Planning Conference	10/13/12	100	Homeowners
Carolina Clear	Richland County Public Library	Carolina Yards Backyard Landscaping speaker series	March 14, 21, 28 & April 4, 2013	53	Homeowners



Carolina Yards is a recognition program for homeowners who want to make their yards more environmentally friendly, for example by limiting fertilizer and pesticide use and preventing erosion with mulch and ground covers. To promote this program, presentations were given to gardening clubs and church groups, and a display was set up at Richland County's Neighborhood Planning Conference. In March and April, a four-part Backyard Landscaping speaker series was held to introduce homeowners to some of the Carolina Yards gardening principles. Topics included irrigation management, growing turf grass, gardening for wildlife and choosing the right plant for the right place. Speakers came from Clemson University, Riverbanks Botanical Garden and the local business community.

*Top right: Betsy Kammerlen with Fuss & O'Neill speaks at the Backyard Landscaping series
Lower right: Carolina Yards display at the Neighborhood Planning Conference.*



HOMEOWNERS ASSOCIATION PRESENTATIONS

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Gills Creek Watershed Association		Presentations to Homeowner Associations on Gills Creek Watershed	3 presentations	53	Homeowners
Richland County Stormwater		Presentations for Cary Lake LOA	6/20/13, 1/15/13	45	Homeowners



Public Education

Commercial Citizens

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear	Keep the Midlands Beautiful	Displays at Green is Good for Business Conference	9/18/12	300	Commercial
Carolina Clear	Central Midlands Council of Governments	Sanitary sewer provider online survey	Fall 2012	6	Commercial
Carolina Clear	Central Midlands Council of Governments	Meetings with sewer providers to strategize education for reducing sanitary sewer overflows	1/31/13, 2/11/13	8	Commercial
Carolina Clear	Richland County Stormwater	"Partners for Healthy Watersheds" presentations for the Greater Columbia and Blythewood Chambers of Commerce	3/5/13, 3/12/13	73	Commercial
Sustainable Midlands	Carolina Clear	Caring for Creation workshop for congregations	3/11/13	50	Commercial
Richland County Stormwater		Industrial High Risk Conference	5/8/13	19	Commercial

RCSC has several ongoing initiatives for businesses. Partners for Healthy Watersheds is a recognition program for businesses that want to show that they are doing their part for clean water. Presentations for local chambers of commerce and a display at the Green is Good for Business Conference were used to build awareness off the program. Next year, new incentives will be added and new contacts made to increase participation in this program.

To reach out to the local faith community, Sustainable Midlands offered a Caring for Creation workshop as part of its ongoing Green Congregations Initiative. Places of worship, like any other business or facility, can take steps to protect the environment and make a difference through their practices.

With the help of the Central Midlands Council of Governments, RCSC has worked with local sewer service providers to brainstorm ways to reach customers with information about reducing fats, oils, and grease (FOGs) in drains, as well as reporting sanitary sewer overflows. New materials will be developed in the next year to communicate more effectively with the public and help them do their part in reducing sanitary sewer overflows.



Commercial Citizens

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Conservation District		Integrated Pest Management Workshop	9/13/12	50	Commercial
Conservation District		Irrigation and Water Management Workshop	3/14/13	60	
Richland County Stormwater	Carolina Clear	Pesticide, Herbicide and Fertilizer (PHF) Conference	6/4/13	18	Commercial
Richland County Stormwater		Outreach during PHF inspections	Ongoing	31	Commercial

A series of outreach initiatives were offered specifically for landscaping, horticulture and agriculture businesses. These audiences can have a direct connection with water quality. Misuse of herbicides and pesticides can introduce toxic contaminants into rivers and streams, and overuse of fertilizer can lead to algae blooms, low dissolved oxygen and fish kills. Overuse of irrigation can cause erosion and other issues related to water quantity.

Through its new Organic Richland program, the Richland Soil and Water Conservation District held workshops on Integrated Pest Management and Irrigation and Water Management. The workshops included speakers from USDA-NRCS, Clemson University, and Clemson Extension.

The Richland County Stormwater Department held a Pesticide, Herbicide and Fertilizer conference with speakers from Clemson University's Department of Pesticide Regulation (DPR). This training focused on safe storage and handling of PHFs, covering the issues and violations most commonly encountered by DPR staff. Richland County stormwater staff also conducts PHF inspections throughout the county. The conference was an important addition to the outreach stormwater staff do during their inspections, giving them an opportunity for clarification and details. Richland County inspectors also distributed a new handout on yard waste, printed in both English and Spanish, during their visits to businesses throughout the county (see p. 7).



Irrigation Management Workshop, part of the new Organic Richland program. Photo Credit: Chanda Cooper



Studying hard at the Irrigation Management Workshop. Photo Credit: Chanda Cooper



Identifying plant problems at the Integrated Pest Management Workshop. Photo Credit: Chanda Cooper



Groundskeeping and landscaping staff at the Pesticide, Herbicide and Fertilizer Conference

Litter Sweeps

Litter is a highly visible problem with serious consequences for streams. Electronic waste, plastics, tires, and other materials can release harmful chemicals as they break down and may be mistaken for food by wildlife. If citizens perceive a stream as already polluted, they may not try as hard to keep it clean. On the other hand, litter cleanups often serve as a first step for getting citizens involved in their watershed. Litter is easier to see and understand than other pollutants, and may inspire a community to take action. Participating in cleanups offers instant gratification from the improvements made, and leave citizens feeling empowered to make a difference.

ACTIVITY	NUMBER OF VOLUNTEERS	POUNDS OF TRASH COLLECTED	HOURS OF SERVICE
Adopt-A-Highway	3,305	81,020	10,484
Adopt-A-Waterway	174	2,975	800
River Sweep 2012	125	2,450	438
Additional KMB cleanup events	736	14,760	1,996
Watershed cleanups	106	1,600	106
TOTAL	4,446	102,805	13,824



KEEP THE MIDLANDS
BEAUTIFUL

Keep the Midlands Beautiful is a non-profit organization that coordinates the Adopt-A-Highway and Adopt-A-Waterway programs in Richland and Lexington Counties. These programs allow volunteer groups to select a section of road or shoreline and commit to a minimum of four cleanup efforts per year. Keep the Midlands Beautiful also hosts Good-Clean-Fun cleanups and other beautification efforts throughout the year.



Volunteers from Heathwood Hall School and Gills Creek Watershed Association pick up South Beltline Boulevard. Photo Credit: Julie Mayson



Cary Lake Homeowners Association picks up around the shores of Cary Lake. Photo credit: GCWA



Congaree Riverkeeper Volunteers clean up trash and debris during River Sweep. Photo credit: Bill Stangler

Litter Sweeps

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Keep the Midlands Beautiful	Many	Adopt-A-Highway program	Ongoing	3,305	General Public
Keep the Midlands Beautiful	Many	Adopt-A-Waterway program	Ongoing	174	General Public
Keep the Midlands Beautiful	Many	Volunteer events, including Great American Clean Up, Good-Clean-Fun Saturdays and other events	Ongoing	726	General Public
Keep the Midlands Beautiful	SC DNR, SC Sea Grant	River Sweep	9/15/12	125	General Public
Congaree Riverkeeper, Rocky Branch Watershed Alliance		Congaree River and Rocky Branch Watershed volunteer cleanups	7 cleanups	106	General Public

Congaree Riverkeeper, Sustainable Carolina, the Rocky Branch Watershed Alliance, and the Gills Creek Watershed Association held several cleanups during the year as well. These partners and KMB also hosted sites for River Sweep, an annual statewide cleanup day organized by the South Carolina Department of Natural Resources and South Carolina Sea Grant. The number of volunteers participating in cleanup activities increased by 50% over the previous year.



Volunteer Water Quality Monitoring

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Congaree National Park	Region IV EPA, SCDHEC	Congaree Water Quality Monitoring Workshop	3/15/13-3/16/13	24	General Public

A two-day water monitoring workshop was held May 15 - 16 at Congaree National Park, coordinated by staff from the Old Growth Bottomland Forest Research and Education Center, Region IV EPA, and SC Department of Health and Environmental Control. Participants learned how to conduct basic stream health evaluations using simple monitoring techniques. These included sampling for and identifying macroinvertebrates, assessing types of stream habitats, and understanding stream flow and hydrology. Long term, Congaree National Park hopes to assist citizens in establishing consistent water quality monitoring programs in South Carolina.



Photo credit: Bill Stangler

Recycling Events

LEAD PROVIDER	ACTIVITY	LOCATION	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Richland County Solid Waste	Electronics recycling event	Zion Mill Creek Baptist Church	12/1/12	206	General Public
Richland County Solid Waste	Household hazardous waste and electronics collection event	State Fair Grounds	6/30/12	856	General Public
Richland County Solid Waste	Electronics and shredding collection event	Heathwood Hall	4/27/13	Not assessed	General Public
Richland County Solid Waste	Annual Richland Recycles Day	State Fair Grounds	5/17/13	1,338	General Public

Special collection days for household hazardous waste (HHW) and electronics benefit water quality by keeping harmful materials out of streams and rivers. Because these items are not accepted with regular trash collection, residents may be tempted to dump them illegally in streams, ditches or other secluded areas. Collection events give citizens a convenient opportunity to safely dispose of these materials.

Rain Barrel Workshops

LEAD PROVIDER	SUPPORTING PARTNER	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Carolina Clear		Rain barrel workshop	10/14/12	10	Homeowners
Carolina Clear		Rain barrel workshop	4/16/13	13	Homeowners
Conservation District	Carolina Clear	Rain barrel workshop for teachers	7/31/12	32	Teachers



Left and Center: At rain barrel workshops, homeowners construct barrels for their own homes. Making the barrels themselves gives them extra motivation to make use of the barrel.

Right: Teachers from six Richland County schools make barrels to be installed at their schools (see p. 26). Photo credit: Chanda Cooper



Public Involvement

Youth Involvement Activities

RAIN BARRELS AND GREEN STEPS PROJECTS

LEAD PROVIDER	SUPPORTING PARTNERS	ACTIVITY	DATE	NUMBER OF IMPACTS	TARGET AUDIENCE
Conservation District	Carolina Clear	Green Steps Schools rain barrel projects	Ongoing	7 schools, 1,468 students	Youth
Conservation District	Carolina Clear	Rain barrels installed at schools (not Green Steps projects)	Ongoing	8 schools, 320 students	Youth
Conservation District		Earth Day Mini-Grant (\$250) for an erosion control project	April 2013	12	Youth

GREEN STEPS SCHOOLS: RAIN BARREL PROJECTS

- A.C. More Elementary School
- Barclay School
- Conder Elementary School
- H.E. Corley Elementary School
- Longleaf Middle School
- St. Joseph Catholic School
- St. John Neumann Catholic School

OTHER SCHOOLS WITH NEW RAIN BARREL PROJECTS

- A.J. Lewis Greenview Elementary School
- Hyatt Park Elementary School
- Pine Grove Elementary School
- Forest Heights Elementary School
- Burnside Elementary School
- Mill Creek Elementary School
- Pontiac Elementary School
- Bookman Road Elementary School



Rain barrel installed at St. John Neumann Catholic School as part of a Green Steps Schools project. Photo credit: Chanda Cooper



Students at Bookman Road Elementary installed two rain barrels and new plants for their rain garden. Photo credit: Becky Groth

Over the past year, fifteen public and private schools throughout the county installed rain barrels as part of ongoing Green Steps School projects, school gardens or outdoor classrooms. Not only do the barrels provide opportunities for hands-on learning at the school, they serve as demonstrations of stormwater management techniques that can be implemented by the families of the students at their own homes. Other school projects related to water quality included an erosion control installation and improvements to a school rain garden.



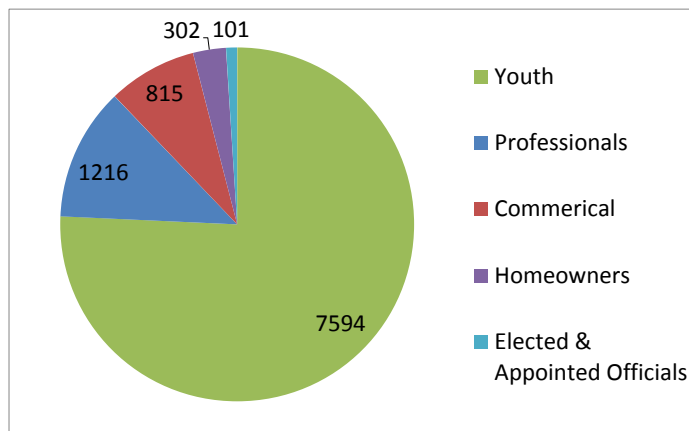
Outreach Summary

Year 5, 2012-2013

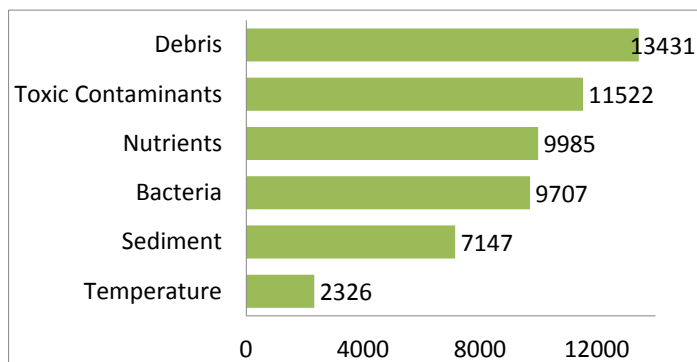
Other than the general public, in terms of direct outreach, youth was the target audience reached in greatest numbers in Year 5. Classroom presentations, activities at children’s events and rain barrel installations at schools reached more youth than in any previous year. Professional audiences were the next highest group reached, through increased CEPSCI and CSPR trainings and the South Carolina Water Resources Conference. Commercial audiences were also reached in high numbers, with special focus given to landscaping professionals.

In Year 6, RCSC plans to increase outreach to the development community by building partnerships with developers, contractors and builders. In July of 2013, Richland County passed an Open Space Ordinance that provides incentives for developers using Low Impact Development (LID) principles. RCSC will work with the Home Builders Association of Greater Columbia to determine what education is needed by builders and designers to put these principles into practice, and create a strategy for providing outreach to encourage the use of LID in the Midlands. These programs will also attempt to bring elected and appointed officials into the conversation to make sure regulations allow good opportunities for implementing LID.

NUMBER IMPACTED*, BY TARGET AUDIENCE



NUMBER IMPACTED*, BY TARGET POLLUTANT



*Excludes mass media impacts. Mass media is defined as television, radio, newspapers, and magazines.

Debris was the most effectively targeted pollutant in 2012-2013, due to increased interest in volunteer litter cleanups and recycling events. Impacts focusing on toxic contaminants were second, and nutrients were third. Toxic contaminants were addressed through recycling events for household hazardous waste and electronics. Outreach focusing on pesticide, herbicide and fertilizer usage for landscapers and home gardeners addressed both toxic contaminants and nutrients.

In the upcoming year, new outreach materials and websites will be developed to address fecal bacteria contamination resulting from sanitary sewer overflows. This will be done in partnership with sanitary sewer providers across the county. Partnerships with local septic tank service providers will also be investigated as another way to reduce sources of fecal bacteria.

Drawing from the RCSC Three-Year Strategic Plan, county monitoring data, and experience from previous years, RCSC looks to the 2013-2014 programming year with excitement. As our programs grow and evolve over time, we are encouraged by the results we see and look forward to implementing programs and engaging the public to protect water quality in the year ahead.



Appendix A

Articles

Article published in *The State* newspaper sharing the Gills Creek Watershed Association's views on an important watershed issue.

The State

[Next Story >](#)

March to the music

Environmental groups want to weigh in on proposed Richland 2 school

Published: June 4, 2013

By CAROLYN CLICK — cclick@thestate.com

The Gills Creek Watershed Association, along with the town of Arcadia Lakes and the Cary Lake Homeowners Association, want to make sure a new Richland 2 elementary school planned on Trenholm Road Extension does not adversely affect the urban stream system and Cary Lake.

"This is a greenspace right now which is helping the water quality that is coming into Cary Lake," Erich Miarka, program coordinator for the watershed association, said Monday.

Miarka and others have met with school officials to make sure they are aware of the fragility of the 70-mile stream system that meanders through Richland County, Arcadia Lakes, the city of Columbia, Fort Jackson and Cayce.

Richland 2 has an option on the property just off Decker Boulevard, but has not made a formal purchase, said Fred McDaniel, Richland 2's chief planning officer. The land has been surveyed and the district is doing due diligence on the property.

In a meeting, McDaniel said he reassured the environmental and homeowner representatives that the 24-acre plot the district wants to buy will have no negative impact on the watershed. He said another meeting is planned for next week.

Richland 2 board member James Manning said Monday he also has met separately with the Cary Lake Homeowners Association, whose members are concerned about the potential for sediment runoff into Cary Lake.

"The homeowners association brought up green construction, permeable asphalt versus less permeable asphalt," Manning said. "Some of those things they are looking to have done, we can do."

Manning noted the district already is building to LEED, or Leadership in Energy and Environmental Design, certification, which means some green aspects already are part of the Richland 2 construction culture.

Steve Brown, president of the Cary Lake Homeowners Association, said the association's members do not want to place themselves in an adversarial position with the district, which has planned the school to ease population size at some of its nearby elementary schools, including Keels, Forest Lake, Conder and Windsor Lake.

"We are not against the building. We just want to follow the rules and regulation which will, in turn, improve the watershed," said Brown, who leads the organization that represents 46 landowners around the lake. "That land area is going to need the Gills Creek watershed drainage system. All we ask is they join us in protecting it."

McDaniel said the land contains about 21/2 acres of wetlands, which will require a permit from the U.S. Army Corps of Engineers to proceed.

He said when the district approached the property owner about the land, the owner specifically said he did not want to sell the southernmost piece that contained the confluence of Jackson and Little Jackson Creeks. Richland County has envisioned a network of trails and parks that utilize the waterways around that area.

"What we are planning to do would have no impact on the trails that they are planning to put in or sedimentation of the lake," he said. McDaniel said the district also would be willing to partner with organizations to establish an



Appendix A

Article in *The State* newspaper, continued...

environmental laboratory for students to utilize.

Miarka said the watershed association, a partnership made up of federal, state and local governments as well as local individuals and environmental groups, has "kind of a vested interest" in protecting Cary Lake after taking a role in the county's dredging project of Cary Lake several years ago.

Mark Huguley, vice president of the Cary Lake Homeowners Association, said the cost to the county of dredging what he described as a "stressed urban lake" was between \$700,000 and \$750,000. Add to that monies the county plan to spend to develop trails and restore wetlands around Decker and coordination among government entities is imperative, he said. He worried that such communication wasn't apparent until the civic groups entered the discussion.

"All of us feel good about the school district building in this area — no one is against the school," he said. "We just want the district to be sure to take our concerns into consideration and act appropriately."

Arcadia Lakes town council is preparing to draft a letter to the district expressing its concern that any construction takes into account the fragile watershed and does not add to stormwater runoff, town clerk Christine Murphy said Monday.

Articles

Article on rain barrels published in the *South Carolina Market Bulletin* magazine.





Appendix B

2012-2013 Activity Data

The following table shows public education, outreach, involvement, and participation efforts completed in year 5, with the number of individuals impacted.

Lead Service Provider	Activity	Target Geography/ Land Use	Target Pollutant(s)							Participation by other Service Providers	Location and Date Delivered	Number Impacted	Assessment Type
			General Stormwater Awareness	Bacteria	Toxic Contaminants, petroleum products, pesticides, heavy metals	Sediment	Nutrients	Debris	Temperature				
General Public													
Richland County Stormwater	Television PSAs on pesticides, fertilizers, pet waste, trash, sediment	Richland County	x	x	x	x	x	x		Carolina Clear	Currently in production	N/A	
Clemson University	Water quality segments on Making It Grow television show.	State-wide	x		x	x	x			Carolina Clear	1/1/13 & 2/5/13	16,457 each episode	
Richland County Stormwater	Interviews on Richland Radio program	Richland, Florence, & Darlington Counties	x							Carolina Clear	Multiple interviews, WGCV AM 620	300,000 potential audience	
Clemson University	Water quality segments on Your Day radio program	State-wide	x	x		x	x	x		Carolina Clear	6 segments	30,000 listeners	Telephone/web survey
Gills Creek Watershed Association	Articles in The State newspaper	Richland County	x	x	x	x	x				6/4/13	Circulation 96737 each article	
SC Department of Agriculture	South Carolina Market Bulletin featured an article on rain barrels	State-wide	x							Carolina Clear	3/21/13	Circulation 20,000	
Richland County Stormwater	Stormwater information featured in Richland Weekly Review newsletter for county employees	Richland County	x								weekly, distributed electronically	4,000	
Carolina Clear	RCSC website	Midlands	x								Online, on-going	2,130 page views	
All Partners	Facebook pages containing stormwater pollution prevention messages	Midlands	x	x	x	x	x	x	x		Online, on-going	7151 fans	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Carolina Clear	H2Ownership fact sheets on HGIC website (six fact sheets total)	State-wide	x	x	x		x				Online	2,422 views	
Carolina Clear	Watershed Moments e-newsletter	Richland County	x								Monthly, electronic distribution	109	
Richland County Stormwater	Magnets promoting stormwater hotline - distributed	Richland County	x	x	x	x	x	x		Carolina Clear	Ongoing	100	Calls received
Carolina Clear	Pet Waste Brochures distributed to veterinary offices & pet supply stores	Richland County	x	x			x				May, 2013	20 stores, 800 brochures	
Richland County Animal Care	Pet waste brochures distributed to with pet registration renewals	Richland County	x	x			x				Ongoing	300	
Keep the Midlands Beautiful	Adopt-A-Highway program	Midlands						x			Ongoing	3305 volunteers	81,020 pounds collected
Keep the Midlands Beautiful	Adopt-A-Waterway program	Midlands	x					x			Ongoing	174 volunteers	2,975 pounds collected
Keep the Midlands Beautiful	River Sweep 2012 cleanup event	Midlands	x					x			9/15/12, Riverbanks Zoo	125 volunteers	2,450 pounds collected
Keep the Midlands Beautiful	Miscellaneous volunteer cleanup events	Midlands						x			Ongoing	726 volunteers	14,760 pounds collected
Congaree Riverkeeper, Rocky Branch Watershed Alliance	Congaree River and Rocky Branch volunteer cleanups	Midlands	x					x			7 cleanup events	106 volunteers	133 bags of trash
Gills Creek Watershed Association	Public presentations on the Gills Creek Watershed	Richland County	x	x	x	x	x	x			5 presentations	89	Post-Survey
Rocky Branch Watershed Alliance	Public meeting on the Rocky Branch Watershed	Richland County	x	x	x	x	x	x			8/20/12, 701 Whaley St.	40	
Rocky Branch Watershed Alliance	Rocky Branch on the Rocks trivia night	Richland County	x								4/22/13, Jake's Bar and Grill	20	
Rocky Branch Watershed Alliance	Rocky Branch on the Rocks trivia night	Richland County	x								4/22/13, Jake's Bar and Grill	20	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Rocky Branch Watershed Alliance	Rocky Branch bus tour	Richland County	x								9/24/12	Not assessed	
Congaree Riverkeeper	Public presentations on the Congaree River Watershed	Midlands	x	x							5 presentations	117	
Gills Creek Watershed Association	Gills Creek Watershed Association newsletter	Richland County	x								Monthly, electronic distribution	585	
Gills Creek Watershed Association	Gills Creek Watershed Association annual meeting	Richland County	x								11/8/12, City Roots	35	
Gills Creek Watershed Association	GCWA membership celebration event	Richland County	x								7/22/12, Lake Carolina Lake House	15	
Gills Creek Watershed Association	Watershed Bird Count training and count as part of Great Backyard Bird Count	Richland County	x								2/13/13 & 2/17/13, Sesqui-centennial State Park	5	
Gills Creek Watershed Association	Wine for Water fundraiser supporting GCWA	Richland County	x								4/27/13, Senate's End	54	Funds Raised
Congaree Riverkeeper	Congaree Riverkeeper River Watch newsletter	Midlands	x	x	x	x	x	x			Distributed electronically, monthly	600	
Congaree Riverkeeper	Congaree Riverkeeper Twitter feed	Midlands	x								Ongoing	270 followers	
Congaree National Park	Congaree Water Quality Monitoring Workshop	Midlands	x	x	x	x	x	x	x	Region IV EPA, SCDHEC	3/15/13-3/16/13, Congaree National Park	24	
Congaree Riverkeeper	River Rocks festival	Midlands	x								4/13/13, Riverfront Park	1000	
Richland Co., City of Columbia, Lexington Co., Carolina Clear	Summer Celebration of Water family festival	Midlands	x	x	x	x	x	x		Many	8/25/12, Riverfront Park	1200	Post-survey
Richland County Solid Waste	Household hazardous waste and electronics recycling days	Richland County	x		x			x			3 collection events	1062 cars	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Richland County Solid Waste	Annual Richland Recycles Day	Richland County	x		x			x			5/17/13, SC State Fair Grounds	1,338 cars	225,000 Pounds collected
Conservation District, Carolina Clear	Display at Sandhills Farmers Market	Richland County	x	x	x	x	x	x			8/28/12, Sandhills REC	13	
Carolina Clear, GCWA	Display at Rooftop Rhythms festival	Forest Acres	x							Forest Acres	9/27/12, 10/25/12 & 4/18/13, Richland Mall	9,500	
Gills Creek Watershed Association	Display at Farmville festival	Richland County	x								11/3/12, EdVenture Museum	200	
Gills Creek Watershed Association	Display at Party for the Planet	Midlands	x								4/20/13, Riverbanks Zoo	150	
Rocky Branch Watershed Alliance	Display at Olympifest	Richland County	x								4/20/13, Olympia Ave.	100	
Gills Creek Watershed Association	Display at Forest Lake Presbyterian Church Earth Sunday	Forest Acres	x								4/21/13, Forest Lake Pres.	50	
Carolina Clear	Display at Big Nosh festival	Forest Acres	x								4/21/13, Tree of Life Synagogue	1000	
Richland County, GCWA	Displays at Sparkleberry Country Fair	Richland County	x							Master Gardeners	4/27/13, Sandhills REC	20000	
Congaree Riverkeeper	Information at River Runner 30th Anniversary Event	Midlands	x								5/18/13, Congaree Vista	50	
Arcadia Lakes	Display at Arcadia Lakes Town Picnic	Arcadia Lakes	x								5/19/13, Tree of Life Synagogue	100	
Youth / K-12 / Teachers													
Carolina Clear, Conservation District, GCWA, Richland County	Enviroscape and other water quality presentations at Richland County Schools	Richland County	x	x	x	x	x	x	x	Richland County Schools	15 schools in Richland County	1961	Quiz
Carolina Clear	Enviroscape Presentations at Richland County summer programs	Richland County	x	x	x	x	x	x	x	RC Recreation Commission	7/30/12, 7/31/12, 8/3/12, Three RC Rec Centers	76	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Carolina Clear	Enviroscape Presentations for after school programs	Richland County	x	x	x	x	x	x	x	RC Recreation Commission	4/30/13, Crane Creek Community Center	27	
Conservation District	Enviroscape presentations for Boy Scouts	Richland County	x	x	x	x	x	x			11/13/12, Pontiac Elementary School	20	
Congaree National Park	Linking Ecology and Art of Floodplains (LEAF) program for third graders	Richland County	x								Fall 2012	1000 students, 50 teachers	
Carolina Clear	Macroinvertebrates for Catawba Trail Elementary Nature Navigators club	Richland County	x		x	x	x				4/9/13, Sandhills REC	18	
Conservation District	Green Steps Schools rain barrel projects	Richland County	x							Carolina Clear	Seven schools, ongoing	1468	
Conservation District	Rain Barrels installed at schools (not Green Steps projects)	Richland County	x							Carolina Clear	Eight schools, Fall 2012	320	
Conservation District	Earth Day Mini-Grant (\$250) for an erosion control project		x			x					April 2013, Lake Carolina Elementary	12	
Richland County	Rain barrel art contest for students	Midlands	x							KMB, Lexington Co., City of Columbia	Fall 2012	200	24 barrels decorated
Carolina Clear	4-H2O Exploring Lake Murray and Exploring the Congaree Watershed water quality day camps	Midlands	x	x	x	x	x	x	x	4-H Program	6/11/12-6/15/12, Lake Murray; 6/25/12-6/29/12, Harbison Forest	39	Post-survey
Richland County Stormwater	Display at Richland 101 for Kids Day	Richland County	x	x	x	x	x	x		Carolina Clear	7/26/12, Dutch Square Mall	1500	
GCWA	Future City project and competition (classroom presentations, local BMP tours, mentoring)	Richland County	x	x	x	x	x	x	x	Carolina Clear, Richland County	Sept. 2012-Jan. 2013	80	
Carolina Clear	Watershed presentation for SPLASH refugee summer program	Midlands	x	x	x	x	x	x	x	Lutheran Family Services Carolinas	7/12/12, Reformation Lutheran Church, Columbia	46	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Many	SC Envirothon competition	State-wide	x	x	x	x	x	x			4/3/13, Sandhills REC	18 teams, 90 students	
Conservation District	SC Envirothon competition: sponsored Richland County teams	Richland County	x								Spring 2013	Three schools, 15 students	
Carolina Clear	Kayak Trip for Nature Navigators club	Richland County	x							Catawba Trail Elementary	5/4/13, Congaree National Park	29	
Many	Richland Recycles Day kids event	Richland County	x		x			x			5/17/13, SC State Fair Grounds	350	
Richland County Stormwater	Public Works Week kids day	Richland County	x					x		Department of Public Works Divisions	5/21/13, Richland County Public Works	180	
Congaree Riverkeeper	Guest lecturer at USC on watershed and water quality topics	Richland County	x								10/3/12 & 11/20/12, USC Campus	26	
Conservation District	Display at USC April Showers event	Richland County	x			x					4/3/13, USC Campus	15	
Conservation District	Rain barrel workshop for teachers	Richland County	x							Carolina Clear	7/31/12, Hyatt Park Elementary	32	12 barrels made
Congaree National Park	South Carolina Outreach and Informal Educators Summit (SCOIES) meetings	State-wide	x								1/9/13, 3/27/13	40	
Professionals: Contractors, Engineers, Developers													
Clemson University	CEPSCI (Certified Erosion Prevention and Sediment Control Inspector) courses	Richland County	x			x					10 courses	840	Exam
Clemson University	CSPR (Certified Stormwater Plan Reviewer) courses	Richland County	x			x					2 courses	56	Exam
Carolina Clear	Booth at South Carolina Water Resources Conference	State-wide	x								10/11/12-10/12/12, Columbia Metropolitan Convention Center	300	
Richland County Stormwater	Internal stormwater management training - SPCC & SWPPP	Richland County	x								Richland County Public Works	20	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Elected and Appointed Officials and High-Level Staff													
Richland County Stormwater & Carolina Clear	Council Retreat - update on Countywide Watershed Improvement Plan request and Mitigation Projects	Midlands	x								1/25/13	25	Post-Survey
Richland County Stormwater & Carolina Clear	Displays at Richland County administration building for Earth Day and Public Works Week	Richland County	x								4/23/13 & 5/7/13, Richland County Admin Building	70	
Carolina Clear	Flooding Issues update for Council member and staff	Richland County	x		x	x	x				2/13/13	6	
Homeowners & Homeowner Associations													
Carolina Clear	Article on Carolina Yards in Carolina Gardener magazine	North & South Carolina	x							Carolina Gardener	Sept. 2012	12,000	
Gills Creek Watershed Association	Presentations to homeowner associations on Gills Creek Watershed	Richland County	x								3 presentations	53	Feedback
Richland County Stormwater	Presentations for Cary Lake LOA	Richland County	x			x		x			6/20/13, 1/15/13	45	
Carolina Clear	Rain barrel workshops	Richland County	x	x	x	x	x	x			10/4/12 & 4/16/13, Sandhills REC	23	Post-survey
Carolina Clear	Presentations on the Carolina Yards recognition program	Richland County	x			x	x				10/10/12, 1/25/13	28	2 yards certified
Carolina Clear	Carolina Yards display at Richland County Neighborhood Planning Conference	Richland County	x		x		x				10/13/12, Columbia Metropolitan Convention Center	100	
Carolina Clear	Carolina Yards Backyard Landscaping speaker series	Richland County	x		x	x	x				Richland County Public Library, Cooper Branch March 14, 21, 28 & April 4, 2013	53	



Appendix B

2012-2013 Activity Data

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Number Impacted/ Reached	Assessment Type
Commercial Citizens													
Conservation District	Integrated Pest Management Workshop	State-wide	x		x						9/13/12, St. Matthews	50	
Richland County Stormwater, Carolina Clear	Display at Green is Good for Business Conference	Midlands	x							Keep the Midlands Beautiful	9/18/12, Columbia Metropolitan Convention Center	300	None
Carolina Clear	Sewer Provider online survey	Midlands	x	x			x			Central Midlands Council of Governments	Fall 2012	6	Survey
Carolina Clear	Meetings with sewer providers to strategize education for reducing sanitary sewer overflows	Midlands	x	x			x			Central Midlands Council of Governments	1/31/13 & 2/11/13	8	Pre- and post-survey
Carolina Clear	"Partners for Healthy Watersheds" presentations for the Greater Columbia and Blythewood Chambers of Commerce	Richland County	x	x	x	x	x	x	x	Richland County Stormwater	3/5/13 & 3/12/13, Columbia and Blythewood	73	
Sustainable Midlands	Green Congregations Workshop	Midlands	x							Carolina Clear	3/11/13, 701 Whaley Street	50	
Conservation District	Irrigation and Water Management Workshop	Richland, Calhoun, & Orangeburg Counties	x		x	x					3/14/13, St. Matthews	60	
Richland County Stormwater	Industrial High Risk Conference	Richland County	x		x	x		x			5/8/13, Midlands Tech, Northeast	19	
Richland County Stormwater	Pesticide/Herbicide/Fertilizer Conference	Richland County	x		x		x			Carolina Clear	6/4/13, Midlands Tech, Northeast	18	
Richland County Stormwater	Outreach during Pesticides, Herbicides, and Fertilizer (PHF) Inspections	Richland County			x		x				Ongoing	31	Post-survey
Carolina Clear	Brochure in Spanish for landscaping businesses and employees.	Richland County	x				x				Distributed with PHF inspections, starting Jan.. 2013	200	



Appendix C

2013-2014 Education Plan of Work

The following table shows public education, outreach, involvement, and participation efforts planned for year 6. The education plan is a living document, and during the year, new items may be added to take advantage of educational opportunities or to address new issues.

Lead Service Provider	Activity	Target Geography/ Land Use	Target Pollutant(s)								Participation by other Service Providers	Location and Date Delivered	Assessment Type
			General Stormwater Awareness	Bacteria	Toxic Contaminants, petroleum products, pesticides, heavy metals	Sediment	Nutrients	Debris	Temperature				
General Public													
Richland County Stormwater	Television PSAs on fertilizers, pet waste, litter, sediment	Richland County	x	x	x	x	x	x			Carolina Clear	Summer 2013	
Richland County & Carolina Clear	Public Access TV Slides	Richland County	x	x		x	x	x					
Clemson Extension	Articles in the State Newspaper	Richland County	x	x	x	x	x					Ongoing	
Richland County Stormwater	Interviews on Richland Radio Program	Richland County	x								Carolina Clear		
Richland County Stormwater	Stormwater information featured in Richland Weekly Review Employee Newsletter for County employees	Richland County	x									ongoing, distributed electronically	
Richland County Stormwater	Outreach on Richland Revealed Television Program	Richland County	x								Carolina Clear		
Carolina Clear	RCSC websites	Midlands	x									Online, ongoing	Feedback on pages
Many	Facebook pages, Twitter, and other social media	Midlands	x									Online, ongoing	
Carolina Clear	H2Ownership fact sheets on HGIC website	Statewide	x	x	x	x	x	x	x			Online	
Carolina Clear	Telephone survey to assess attitudes and behavior change	Midlands	x	x	x	x	x	x	x			Fall 2013	
Richland County Stormwater, Carolina Clear	Outreach on storm sewer systems maintenance, easements, and county responsibilities	Richland County	x										
Richland County Stormwater	Storm drain marking at apartment complexes	Richland County	x										
Carolina Clear, Richland County	Promote reporting of sanitary sewer overflows with materials distributed through sewer providers	Richland County	x	x				x					



Appendix C

2013-2014 Education Plan of Work

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Con-taminants	Sediment	Nutrients	Debris	Temp.	Partici-pation by other Service Providers	Location and Date Delivered	Assess-ment Type
Carolina Clear	Pet Waste Brochures distributed to veterinary offices & pet supply stores	Richland County	x	x			x				Ongoing	
Richland County Animal Care	Pet Waste Brochures distributed to with pet registration renewals	Richland County	x	x			x				Ongoing	
Carolina Clear	Pet Waste Brochures distributed by animal shelters	Richland County	x	x			x			Carolina Clear	Ongoing	
Keep the Midlands Beautiful	Adopt-A-Highway Program	Midlands						x			Ongoing	Pounds collected
Keep the Midlands Beautiful	Adopt-A-Waterway Program	Midlands	x					x			Ongoing	Pounds collected
Gills Creek Watershed Association	Public presentations on the Gills Creek Watershed	Richland County	x	x	x	x	x	x				Post-Survey
Rocky Branch Watershed Alliance	Public presentations on the Rocky Branch Watershed	Richland County	x	x	x	x	x	x			Ongoing	Post-Survey
Carolina Clear, Richland County	Re-initiate Crane Creek Watershed Stakeholder meetings	Richland County	x								Winter 2013	Post-Survey
Richland County Stormwater	Public Presentations on the Crane Creek Watershed	Richland County	x	x	x	x	x	x		Carolina Clear		Post-Survey
Richland County Stormwater	Public presentations on Richland County capital improvement projects	Richland County	x									
Gills Creek Watershed Association	Gills Creek Watershed Association Newsletter	Richland County	x								Monthly, electronic distribution	
Gills Creek Watershed Association	Gills Creek Watershed Association Annual Meeting	Richland County	x									
Gills Creek Watershed Association	Fundraisers building community support of the GCWA	Richland County	x							Carolina Clear		Funds Raised
Congaree Riverkeeper	Congaree Riverkeeper "River Watch" Newsletter	Midlands	x								Distributed electronically, monthly	
Congaree Riverkeeper	Fats, Oils, and Grease outreach to apartment resident, including brochure in English and Spanish	Midlands	x	x			x					
Richland Co., City of Columbia, Lexington Co., Carolina Clear	Summer Celebration of Water Family Festival	Midlands	x	x	x	x	x	x		Many	8/24/13, Riverfront Park	Post-survey
Congaree Riverkeeper	River Rocks Festival	Midlands	x								April 2014, Riverfront Park	
Arcadia Lakes	Arcadia Lakes Town Picnic	Arcadia Lakes	x								May 2014, Tree of Life	



Appendix C

2013-2014 Education Plan of Work

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Assessment Type
Richland County Solid Waste	Richland Recycles Day	Richland County	x		x						May 2014, State Fair Grounds	Pounds collected
Richland County Solid Waste	Household Hazardous Waste Collection and Recycling Days	Richland County	x		x						Multiple	Pounds collected
Richland County, GCWA	Displays at Sparkleberry Country Fair	Richland County	x							Master Gardeners	April 2014, Sandhills REC	
Carolina Clear	Display at Big Nosh Festival	Forest Acres	x								April 2014, Tree of Life Synagogue	
Carolina Clear, GCWA	Display at Rooftop Rhythms Festival	Forest Acres	x							Forest Acres	Fall & Spring, Richland Mall	
Conservation District, Carolina Clear	Display at Sandhills Farmers Market	Richland County	x	x	x	x	x	x			May-Oct. 2014, Sandhills REC	
Youth / K-12 / Teachers												
Carolina Clear	Enviroscape Presentation at Richland County Schools	Richland County	x	x	x	x	x	x	x			Quiz
Carolina Clear	Watershed Presentations for After School Programs	Richland County	x	x	x	x	x	x	x	Richland County Recreation Commission		
Conservation District	Green Steps Schools Rain Barrel projects	Richland County	x							Carolina Clear		
Conservation District	Rain Barrel Workshop for Teachers	Statewide	x							Carolina Clear	Sept. 20, 2013, Clarendon County	barrels made
Carolina Clear	4-H2O Exploring Lake Murray and Exploring the Congaree Watershed water quality day camps	Midlands	x	x	x	x	x	x	x	4-H Program	June 2014	Post-survey
Many	SC Envirothon competition	Statewide	x	x	x	x	x	x			May, Sandhills REC	
Conservation District	"Where Does Your Water Shed?" Poster Contest for youth K-12 grade	Richland County	x								Summer 2013	
Richland County Stormwater	Public Works Week Kids Day	Richland County	x							Public Works Divisions	May 2014, RC Public Works	
Professionals: Contractors, Engineers, Developers												
Clemson University	CEPSCI (Certified Erosion Prevention and Sediment Control Inspector) and CSPR (Certified Stormwater Plan Reviewer) courses	Richland County	x			x						Exam
Carolina Clear	Promote examples of Low Impact Development existing in the Midlands	Richland County	x		x	x	x				Winter 2013, Richland County	



Appendix C

2013-2014 Education Plan of Work

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Con-taminants	Sediment	Nutrients	Debris	Temp.	Partici-pation by other Service Providers	Location and Date Delivered	Assess-ment Type
Gills Creek Watershed Association	Bag lunch talks on best management practices.	Richland County	x			x					Fall 2013, Richland County Public Library	
Carolina Clear	LID Workshop for Developers	Richland County	x		x	x	x				Fall 2013	
Carolina Clear	Produce and distribute guidance materials on implementing LID practices	Richland County	x		x	x	x				Fall 2013	
Carolina Clear, Richland County	Identify LID demonstration site and plan installation	Richland County	x		x	x						
Carolina Clear, Richland County	Training on correct BMP installation for sediment control	Richland County	x			x						
Richland County Stormwater	Internal stormwater management training for the stormwater staff on best management practices for urban stormwater treatment.	Richland County	x								Richland County Public Works	
Elected and Appointed Officials and High-Level Staff												
Richland County Stormwater & Carolina Clear	Presentation for Richland County Council to raise awareness of stormwater issues	Midlands	x									
Central Midlands COG	Presentations to Council of Governments members on Green Infrastructure	Richland County	x		x	x	x					
Carolina Clear	Presentation on Low Impact Development for Richland County Council	Richland County	x		x	x	x				Winter 2013	
Homeowners & Homeowner Associations												
Richland County Stormwater	Storm drain marking volunteer program	Richland County	x	x		x	x	x			Ongoing	Number of drains marked
Carolina Clear	Rain Barrel Workshops	Richland County	x	x	x	x	x	x				Post-survey
Carolina Clear	Presentations on the Carolina Yards & Neighborhoods Recognition Program	Richland County	x			x	x	x				Number of yards recognized
Carolina Clear	Presentations on Fats, Oils and Grease (FOGs) for HOA groups	Richland County	x	x								
Carolina Clear	Distribute materials on proper FOG disposal and sanitary sewer overflow reporting through sanitary sewer providers	Richland County	x	x						Central Midlands COG		
Carolina Clear	Create and distribute materials on septic tank maintenance	Richland County	x	x						Central Midlands COG		
Carolina Clear	Carolina Yards & Neighborhoods presentation series or workshop	Richland County	x		x	x	x	x				



Appendix C

2013-2014 Education Plan of Work

Lead Service Provider	Activity	Target Geography/ Land Use	General	Bacteria	Toxic Contaminants	Sediment	Nutrients	Debris	Temp.	Participation by other Service Providers	Location and Date Delivered	Assessment Type
Gills Creek Watershed Association	Presentations to Homeowner Associations on Gills Creek Watershed	Richland County	x								Ongoing	Feedback
Carolina Clear, Richland County	Richland County Neighborhood Council - include articles in electronic newsletter to HOAs across the county	Richland County	x	x		x	x	x				
Carolina Clear, Richland County	Stormwater Pond Management Workshop for Homeowners and HOAs	Richland County	x		x	x	x				Winter 2014	
RBWA, Carolina Clear	Programming on Rocky Branch Watershed for Olympia Neighborhood	Richland County	x							Richland County		
Richland County Stormwater	Display or presentation at Neighborhood Planning Conference	Richland County	x							Carolina Clear		
Commercial Citizens												
Carolina Clear	"Partners for Healthy Watersheds" Business Recognition Program	Richland County	x	x	x	x	x	x	x	Richland County Stormwater	Ongoing	Number of businesses recognized
Carolina Clear	"Partners for Healthy Watersheds" presentations for businesses and media releases	Richland County	x	x	x	x	x	x	x	Richland County Stormwater	Fall 2013	
Richland County Stormwater, Carolina Clear	Display at Green is Good for Business Conference	Midlands	x							Keep the Midlands Beautiful	Sept. 2013, Columbia Metropolitan Convention Center	None
Richland County Stormwater	Pesticides, Herbicides, and Fertilizer (PHF) Inspections to bring awareness about proper use of these products and regulate storage of these products.	Richland County			x		x				Ongoing	
Richland County Stormwater	Pesticide/Herbicide/Fertilizer Training	Richland County	x		x		x			Carolina Clear	Winter 2014	Post-survey
Carolina Clear	Outreach materials for Landscaping businesses	Richland County	x		x		x					
Carolina Clear	Outreach materials for auto repair shops	Statewide	x		x							
Carolina Clear	Outreach materials for restaurants	Statewide	x		x							



Appendix D

RCSC Partner Websites

CAROLINA CLEAR WEBSITES

Richland Countywide Stormwater Consortium - <http://www.clemson.edu/carolinaclear/rcsc>

Carolina Clear - <http://www.clemson.edu/carolinaclear>

Shorelines, Stormwater & Other Water Topics on Clemson HGIC - http://www.clemson.edu/extension/hgic/water/resources_stormwater/

Carolina Clear on Facebook - <http://www.facebook.com/carolinaclear>

Midlands Stormwater Consortiums on Facebook - <http://www.facebook.com/midlandsstormwater>

MUNICIPALITIES

Richland County Stormwater Management - <http://richlandonline.com/Government/Departments/PublicWorks/Stormwater.aspx>

City of Forest Acres - <http://www.forestacres.net/>

Town of Arcadia Lakes - <http://www.arcadialakes.net>

EDUCATION PARTNERS

AMEC - <http://www.amec.com/>

Carolina Children's Garden - <http://www.carolinachildrengarden.org/>

Central Midlands Council of Governments - <http://www.centralmidlands.org>

Congaree National Park - <http://www.nps.gov/cong/index.htm>

Congaree Riverkeeper - <http://www.congareeriverkeeper.org/>

East Piedmont Resource Conservation & Development - <http://www.nrcs.usda.gov/wps/portal/nrcs/site/sc/home/>

Fuss & O'Neill - <http://www.fando.com/>

Gills Creek Watershed Association - <http://www.gillscreekwatershed.org/>

Green Steps Schools - <http://www.greenstepschools.com/>

Keep the Midlands Beautiful - <http://keepthemidlandsbeautiful.com/>

Richland County 4-H - <http://www.clemson.edu/extension/4h/>



Appendix D

RCSC Partner Websites

- Richland County Conservation Commission - <http://richlandonline.com/Government/Commissions/Conservation-Commission.aspx>
- Richland County Master Gardeners - <http://www.richlandmastergardeners.com/>
- Richland Soil & Water Conservation District - <http://richlandonline.com/Government/Departments/Conservation/SoilWaterConservationDistrict.aspx>
- Rocky Branch Watershed Alliance - <http://www.rockybranchcreek.org>
- Sonoco Recycling - <http://www.sonoco.com/productsservices/sonocorecycling.aspx>
- South Carolina Department of Health & Environmental Control - <http://www.scdhec.gov/index.htm>
- South Carolina Forestry Commission - <http://www.state.sc.us/forest/>
- South Carolina State Museum - <http://www.museum.state.sc.us/>
- Sustainable Carolina - <http://www.sc.edu/green/>
- Sustainable Midlands - <http://www.sustainablemidlands.org/>
- Town of Blythewood - <http://www.townofblythewoodsc.gov/>
- URS - <http://www.urscorp.com/>



Authors

AUTHORS

MARY CAFLISCH

Clemson Extension
PO Box 102406, Columbia, SC 29223
(803) 865-1216 ext. 122
mnevins@clemson.edu

KATIE GIACALONE

Clemson University
Strom Thurmond Institute
230 Kappa Street, Clemson, SC 29634
(843) 730-5076
kgiacal@clemson.edu

QUINTON EPPS

Richland County Public Works
400 Powell Road, Columbia, SC 29203
(803) 576-2465
eppsqr@gov.us

SPECIAL THANKS TO THE FOLLOWING DATA CONTRIBUTORS:

Jacqueline Buck, Chanda Cooper, Katie Giacalone, Frank Henning, Ashley Meador, Erich Miarka, Shirley Mims, Ryan Nevius, Bill Stangler, Bree Tribble, Tameria Warren, Dawn White, Chenille Williams and Terasa Young

PHOTOS PROVIDED BY

William Boyd, Jolie Brown, Chanda Cooper, Kim Counts, Julie Mayson, Ashley Meador, Erich Miarka, Bill Stangler, the Congaree Riverkeeper, the Gills Creek Watershed Association, Keep the Midlands Beautiful and the Rocky Branch Watershed Alliance



Carolina Clear is a program of Clemson University's Public Service Activities. Information is provided by Faculty and Cooperative Extension Agents. Clemson University Cooperative Extension Service offers its programs to people of all ages, regardless of race, color, sex, religion, national origin, disability, political beliefs, sexual orientation, marital or family status and is an equal opportunity employer.


Produced 10/4/2013



Campers at 4-H2O Exploring the Congaree Watershed can't wait to jump in and start learning about water quality. We all have a part to play in protecting streams and rivers so there will be enough clean water for future generations.



www.clemson.edu/carolinaclear

 Follow us at www.facebook.com/pages/Carolina-Clear

