Richland Countywide
Stormwater Consortium

Year 1
FY 2008-2009
Annual Report of Activities

September 2009
Executive Summary

Discussions of a Richland County Stormwater Consortium began in October of 2004. The need for such an organization sprang from a growing concern about water quality in Richland County, accelerated by new EPA mandate to regulate stormwater pollution, which designated certain municipalities as MS4’s (Municipal Separate Storm Sewer Systems), requiring they meet guidelines for controlling polluted runoff. Two key components of the new MS4 permits were stormwater education and outreach, and public involvement and participation. The original concept was a Midlands stormwater education consortium, to include Lexington and Richland Counties, the City of Columbia, and smaller municipalities within the urbanized. All involved felt that by combining resources and working with a statewide organization, more could be achieved than any of the participating municipalities could achieve alone, an approach supported by both the US Environmental Protection Agency and the SC Department of Health and Environmental Control. The Richland Countywide Stormwater Consortium (RCSC) eventually formed as a separate organization due to differing timetables of the permits being issued.

Clemson University and Richland County, along with the Town of Arcadia Lakes and the City of Forest Acres, entered into a formal contract and Memorandum of Understanding in June 2008. This agreement states that that Clemson University's Public Services Activities (PSA) Carolina Clear initiative will be contracted to assist the county and MS4s in meeting DHEC and EPA’s minimum control measures one and two, which require Public Education and Outreach along with Public Involvement and Participation(Appendix B).

The first official meeting of the Richland Countywide Stormwater Consortium was held on December 10, 2008, at which an initial Education Plan of Work was drafted (Appendix C). A second meeting was held in March in order to begin work on the consortium mission and strategic goals, as well as to develop a logo for use in social marketing. Now entering into the second year of the permit, regular monthly meetings are to be held to evaluate ongoing activities, and develop future initiatives.

This NPDES permit reporting year, Richland County Stormwater Consortium (RCSC), at full swing, is one of the best things that happened to Richland County’s Stormwater MS4 permit. The consortium efforts helped all of the stakeholders in pooling their resources. The effort exhibits “team work” at its best. I have enormous confidence that the Carolina Clear program will have a huge positive impact in the region for its bright, environmentally-friendly, and sustainable future.

- Srinivas Valavala,
  Richland County Stormwater Manager
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During year 1 the core consortium members were extremely dedicated to the regional education concept. The representatives of the MS4’s provided the major guidance in determining the direction and purpose of the consortium, taking ownership of the consortium’s efforts and dedicating their time and resources to its success. While Richland County is the strongest participant, Forest Acres and Arcadia Lakes have also contributed their unique perspectives for a highly inclusive approach.

Table 1. Summary of Local Consortium Representatives

<table>
<thead>
<tr>
<th>Co-permittees</th>
<th>Consortium Representatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County</td>
<td>Srinivas Valavala, Stormwater</td>
</tr>
<tr>
<td></td>
<td>Keith Anthony, Stormwater</td>
</tr>
<tr>
<td></td>
<td>Joe Kocy, Planning</td>
</tr>
<tr>
<td></td>
<td>Stephanie Snowden, Public Information</td>
</tr>
<tr>
<td></td>
<td>Kelvin Washington, County Council</td>
</tr>
<tr>
<td>City of Forest Acres</td>
<td>Mark Williams, Administrator</td>
</tr>
<tr>
<td></td>
<td>Shaun Greenwood, Asst. Administrator</td>
</tr>
<tr>
<td>Town of Arcadia Lakes</td>
<td>Richard Thomas, Mayor</td>
</tr>
<tr>
<td></td>
<td>Christine Murphy, Town Clerk</td>
</tr>
</tbody>
</table>

Richland MS4’s  
FY 08-09 Annual Report  
Richland Countywide Stormwater Consortium
The most important first step for the core RCSC members was to identify and recruit educational partners from government agencies, non-profit and community organizations, businesses, and individuals who share the consortium’s mission of providing education to the public on stormwater issues throughout Richland County. This team-based approach allows partners to share valuable resources, while ensuring a consistent and research-driven message. With these partnerships, the RCSC remains dedicated to developing and delivering effective, outcomes-based educational programming throughout the watershed.

**Table 2. Summary of Local Education Service Partners**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Victoria Kramer</td>
<td>DHEC BOW</td>
</tr>
<tr>
<td>Rebecca Spratlin</td>
<td>DHEC BOW</td>
</tr>
<tr>
<td>Amanda Ley</td>
<td>DHEC BOW</td>
</tr>
<tr>
<td>Mary Jane Henderson</td>
<td>Richland Soil &amp; Water Conservation District</td>
</tr>
<tr>
<td>Hugh Caldwell</td>
<td>Richland Soil &amp; Water Conservation District</td>
</tr>
<tr>
<td>Jim Wilson</td>
<td>Richland County Conservation Commission</td>
</tr>
<tr>
<td>Pamela Greenlaw</td>
<td>Gills Creek Watershed Association</td>
</tr>
<tr>
<td>Jessica Artz</td>
<td>Gills Creek Watershed Association</td>
</tr>
<tr>
<td>Heidi Johnson</td>
<td>Keep America Beautiful of the Midlands</td>
</tr>
<tr>
<td>Larry Cooke</td>
<td>Arcadia Lakes Navy</td>
</tr>
<tr>
<td>Tom Falvey</td>
<td>South Carolina State Museum</td>
</tr>
<tr>
<td>Name</td>
<td>Organization</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Geoff Smith</td>
<td>BP Barber and Associates</td>
</tr>
<tr>
<td>Erica Huggins</td>
<td>BP Barber and Associates</td>
</tr>
<tr>
<td>Betsy Kaemmerlen</td>
<td>Fuss &amp; O’Neil</td>
</tr>
<tr>
<td>Jason Craig</td>
<td>USC Green Quad</td>
</tr>
<tr>
<td>Ryan Nevius</td>
<td>Richland County Master Gardeners Association</td>
</tr>
<tr>
<td>Alan Merhzad</td>
<td>Congaree Riverkeeper</td>
</tr>
<tr>
<td>Ed Diebold</td>
<td>Riverbanks Zoo &amp; Botanical Garden</td>
</tr>
<tr>
<td>Keith Benson</td>
<td>Riverbanks Zoo &amp; Botanical Garden</td>
</tr>
</tbody>
</table>
Mission & Goals

RCSC  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.

Goals:

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.

It is vital that we communicate the connection between clean water and people’s everyday choices. Everyone has a role in maintaining good water quality, they just may not be aware of it yet!

- Jessica Artz,
Gills Creek Watershed Association
At the initial consortium meeting in December, 2008, the consortium members built a comprehensive Strategic Educational plan for Richland County that would be inclusive of all partners utilizing their expertise and resources wisely (Appendix C). The Education Plan format organizes activities by target audience, and includes a checklist of target pollutants. This format assists the consortium in creating a plan that is truly comprehensive. Implementation of the Education Plan began immediately, yet the plan is a living document which is updated regularly and will eventually be evolved into a five-year plan of work that documents our activities as well as our accomplishments.

In developing the Education Plan, consortium members prioritized projects according to several factors. One of these was which pollutant a particular initiative addressed. Richland County has completed an analysis of pollutants of concern, and found the pollutants of greatest threat to water quality to be fecal bacteria, dissolved oxygen demand, suspended solids, oil and grease, nitrogen, phosphorus, chlorine and copper, in that order (BP Barber, 2009). Another consideration was to include programs addressing a wide variety of audience types. It is the goal of RCSC to provide an education program that is comprehensive and complete in scope.

<table>
<thead>
<tr>
<th>Table 3. Sample of Year 1 Education Plan - General Public</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lead Service Provider</strong></td>
</tr>
<tr>
<td>1. <strong>Clemson Carolina Clear</strong></td>
</tr>
<tr>
<td>1. Rain Garden presentation at American Dream, Richland’s</td>
</tr>
<tr>
<td>1. Rain Garden Nature and Green Living Conference, March</td>
</tr>
<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. Presentation on stormwater management initiatives in</td>
</tr>
<tr>
<td>1. Richland County at American Dream</td>
</tr>
<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. Raise awareness to the Stormwater hotline - who, when,</td>
</tr>
<tr>
<td>1. and, who should be called for what reason</td>
</tr>
<tr>
<td>1. <strong>Clemson Carolina Clear</strong></td>
</tr>
<tr>
<td>1. Made Advertisements</td>
</tr>
<tr>
<td>1. Richland County</td>
</tr>
<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. Earth Day Project (Lawnmower Exchange)</td>
</tr>
<tr>
<td>1. Richland County</td>
</tr>
<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. National County Government Week</td>
</tr>
<tr>
<td>1. <strong>Clemson Carolina Clear</strong></td>
</tr>
<tr>
<td>1. Water Quality Publications</td>
</tr>
<tr>
<td>1. Richland County</td>
</tr>
<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. State Fair 2009</td>
</tr>
<tr>
<td>1. Richland County</td>
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<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. Green Conference</td>
</tr>
<tr>
<td>1. Richland County</td>
</tr>
<tr>
<td>1. <strong>Richland County &amp; Clemson Carolina Clear</strong></td>
</tr>
<tr>
<td>1. Public Access TV Commercial and Advertisement</td>
</tr>
<tr>
<td>1. Richland County</td>
</tr>
<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. Recycle Day</td>
</tr>
<tr>
<td>1. Richland County</td>
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<tr>
<td>1. <strong>Richland County</strong></td>
</tr>
<tr>
<td>1. Sparkleberry Country Fair</td>
</tr>
<tr>
<td>1. Richland County</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Target Pollutants</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Infiltration</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Participation by other Service Providers</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Richland Northeast High School, March 2009</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Location and Date</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Richland Northeast High School, March 2009</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Number Impacted/ Reached</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. In progress</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Assessment Type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Country-wide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Target Geographical/Lived Use</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Midlands</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>General Public</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NMB, many others</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Table 3. Sample of Year 1 Education Plan - General Public</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>ADAPTIVE Stormwater Education Plan</strong></td>
</tr>
<tr>
<td>**Year 1 (2008-09) - Richland County, Arcadia Lakes and</td>
</tr>
<tr>
<td><strong>Forest Acres</strong></td>
</tr>
<tr>
<td><strong>Living Document (last revised: 3/17/09)</strong></td>
</tr>
</tbody>
</table>
In order to more efficiently record our education efforts, a web-based reporting form was developed, utilizing Google Forms. Consortium members can access the database from the RCSC website. The reporting form prompts participants for all the relevant information about their activities, such as date, location, target pollutants, audience, numbers impacted, and evaluation methods used. The database can be exported to an Excel file, where the activities can be sorted by service provider, pollutant, or any other factor. This allows us to study our program efforts, analyze data, produce graphs, and discover our strengths and weaknesses. The data fields included were reviewed by entities within the Department of Health and Environmental Control, including those involved with permitting and compliance.
The general public was the broadest category of the audiences that were targeted for stormwater education. Youth were also well represented among program participants. In the next year, RCSC will strive to reach more professional audiences and elected and appointed officials. These two group make up only a small fraction of Richland County’s population, but have a crucial role in preventing stormwater pollution.

Debris and toxic contaminants were the most effectively targeted pollutants, due to the amazing efforts of Keep the Midlands Beautiful, which organized numerous cleanups throughout the year, and also Richland County, who drew a huge turn-out for Recycle Day. In Year 2 RCSC will introduce additional programs targeting bacteria and nutrients. Both are very high on the list of pollutants of concern in Richland County waterways.

In both figures, numbers from mass media campaigns and storm drain marking have been omitted. Both of these efforts reach huge numbers of people, but with less direct impact than a more formal program, and therefore are not comparable. If these numbers were included, the values for “General Public” and “General Awareness” in Figures 1 and 2 respectively, would be much greater.

Total People Impacted = 9497
Because Carolina Clear is a statewide program with the backing of Clemson University, RCSC was able to take advantage of mass media in a powerful way. Public service announcements have been submitted to a local television channels and radio stations as well as a public service channel. The number of impacts has not yet been assessed or made available to the consortium. This information will be included in the report for Year 2, as this is when the conclusion of the current campaign occurs. Messages were developed and advertisements produced for radio and television, including both still slides and a live action commercial. The initial messages focus on raising general awareness, as research indicates that the public is unaware that stormwater pollution is currently the major threat to South Carolina’s waterways, as shown by a survey of South Carolina citizens by Clemson University, (Public Opinion on the Saluda-Reedy Watershed: Knowledge, Attitudes and Behaviors, Mobley and White, 2005). As the public becomes more aware of the issue, messages can become more specific, with the focus shifting to target particular pollutants and behaviors.

The Carolina Clear television message features a goldfish in a bowl, a simple, eye-catching image the public can relate to easily.

Slides on public access television feature simple messages to promote general awareness of stormwater pollution.

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<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Clear</td>
<td>Radio Advertisements on Stormwater Awareness, ETV Radio, 93.1</td>
<td>Midlands, Spring 2009</td>
<td>Not yet available</td>
<td>N/A</td>
</tr>
<tr>
<td>Carolina Clear</td>
<td>Stormwater Awareness Message on Public Access TV.</td>
<td>Midlands, Spring 2009</td>
<td>Not yet available</td>
<td>N/A</td>
</tr>
<tr>
<td>Carolina Clear</td>
<td>Development of Stormwater Awareness Television Commercial</td>
<td>Ongoing</td>
<td>Not yet available</td>
<td>N/A</td>
</tr>
</tbody>
</table>
At the start of 2009 Clemson created a new website for the Richland Countywide Stormwater Consortium within the Carolina Clear website.

The Richland Countywide Stormwater Consortium webpage was launched on February 2, 2009, and was completely developed by May. Since February, the following statistics are available:

- 265 total page views
- 195 unique views
- Average time spent on page was 1 minute and 22 seconds.

In reaching out to the general public, RCSC attempts to make the best possible use of technology. Resources like websites, email distribution lists, and social networking pages provide excellent opportunities to impact larger audiences than could be reached by traditional means such as mass mailings, and are often much more cost effective.

<table>
<thead>
<tr>
<th>Lead Provider</th>
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<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clemson</td>
<td>Develop and update Clemson University Carolina Clear web page for Richland County</td>
<td>February — May 2009</td>
<td>265</td>
<td>N/A</td>
</tr>
<tr>
<td>Gills Creek Watershed Association</td>
<td>E-mail newsletters featuring stormwater articles</td>
<td>Internet, ongoing</td>
<td>215</td>
<td>N/A</td>
</tr>
<tr>
<td>Gills Creek Watershed Association</td>
<td>Gills Creek Watershed Association Facebook Page</td>
<td>Internet, Launched April 7, 2009</td>
<td>31</td>
<td>N/A</td>
</tr>
</tbody>
</table>
At numerous festivals throughout the year, the RCSC education partners presented information on stormwater pollution. The displays included watershed models, informational brochures, giveaways with water quality messages, and other materials. April and May were especially busy months, with the celebration of Earth Day bringing environmental issues to the attention of the media and general public. These types of events are excellent ways to reach a large number of people at once in an informal setting where participants can ask questions and receive individual attention.

In the future, RCSC intends to increase its attendance at festivals and public events, with goals including potentially establishing a permanent exhibit at the South Carolina State Fair. We also intend to produce a wider variety of handouts and brochures, some providing detailed information on stormwater do’s and don’ts, and others targeting specific issues, such as proper disposal of pet waste or bagging leaves and yard waste.
Keep the Midlands Beautiful, an affiliate of Keep America Beautiful, coordinates litter pickups, beautification projects, and recycling programs for thousands of Richland and Lexington county residents each year. Left: volunteers with Adopt-A-Highway remove litter from a roadside. Center: USC students remove trash from a tributary of Gills Creek. Right: Signs recognizing Adopt-A-Highway volunteer groups raise awareness of the importance of not littering.

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep the Midlands Beautiful</td>
<td>Adopt-A-Highway --55,538 pounds of trash removed from Richland County roadways</td>
<td>Ongoing</td>
<td>2,229 volunteers contributed more than 4,996 hours of service</td>
<td>N/A</td>
</tr>
<tr>
<td>Keep the Midlands Beautiful</td>
<td>Adopt-A-Waterway --6,525 pounds of trash removed from Richland County waterways</td>
<td>Launched October 4, 2008, ongoing</td>
<td>333 volunteers contributed 1074 hours of service</td>
<td>N/A</td>
</tr>
<tr>
<td>Keep the Midlands Beautiful</td>
<td>River Sweep --4,080 pounds of trash removed --131 bags of litter and 73 bags of recyclables</td>
<td>September 20, 2008 Saluda River at Riverbanks Zoo</td>
<td>118 volunteers</td>
<td>N/A</td>
</tr>
<tr>
<td>Gills Creek Watershed Association</td>
<td>USC students from POLI 121 &quot;Green Politics&quot; class clean-up of a tributary of Gills Creek. 40 bags of trash removed, 20 of which were RECYCLED.</td>
<td>April 13-20, 2009</td>
<td>5 volunteers</td>
<td>University of South Carolina</td>
</tr>
</tbody>
</table>

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General Public

FY 08-09 Annual Report
Richland Countywide Stormwater Consortium
During the second annual Beautification Day, community leaders were engaged in discussions to promote the beautification of Richland County and provided with information on how to create projects and obtain grants to fund beautification initiatives. The event also educated the participants about environmental issues including stormwater management.

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County</td>
<td>Richland County Beautification Day</td>
<td>Midlands Tech Northeast Campus, Sept. 9, 2008</td>
<td>300</td>
<td>Keep the Midlands Beautiful</td>
</tr>
</tbody>
</table>

America Recycles Day is a nationally recognized day dedicated to encouraging Americans to recycle and to buy recycled products. This year’s Richland County event was filled with food, fun, and games for the whole family. The annual event drew thousands of citizens of Richland County who took part in recycling electronics, mattresses, books, car tires, and many other household goods.

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County</td>
<td>Richland County Recycle Day</td>
<td>Countywide, November 15, 2008</td>
<td>2500</td>
<td>Solid Waste Division</td>
</tr>
<tr>
<td>SC DHEC and Keep the Midlands Beautiful</td>
<td>Central Midlands Lawn Mower Exchange</td>
<td>Colonial Life Arena, April 18, 2009</td>
<td>90</td>
<td>Richland County, Lexington County, City of Columbia, USC</td>
</tr>
</tbody>
</table>

For Earth Day, Richland and Lexington County residents were invited to trade in their gasoline-powered lawn mowers in exchange for a deep discount on the purchase of environmentally-friendly electric mowers to promote cleaner air in the Midlands. Eighty-two lawn mowers were exchanged for lower emission models, resulting in decreased hydrocarbons, carbon monoxide, nitrogen oxides, and particulate matter entering the atmosphere. Pollutants in the air will eventually settle back to earth and may enter local waterways.
### General Public

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gills Creek Watershed Association</td>
<td>Public presentation on the Gills Creek Watershed</td>
<td>USC Green Quad Learning Center, April 7, 2009</td>
<td>9</td>
<td>Richland County</td>
</tr>
<tr>
<td>Gills Creek Watershed Association</td>
<td>Public Meeting on Gills Creek Watershed Management Plan</td>
<td>April 20, 2009</td>
<td>50</td>
<td>Richland County</td>
</tr>
<tr>
<td>Richland County</td>
<td>Presentation on stormwater management at American Dream, Richland County’s financial empowerment, home buying, and green living conference.</td>
<td>Richland Northeast High School, March 20, 2009</td>
<td>1000</td>
<td>N/A</td>
</tr>
<tr>
<td>Clemson</td>
<td>Presentation on rain gardens, rain water harvesting, and stormwater pollution prevention at American Dream.</td>
<td>Richland Northeast High School, March 20, 2009</td>
<td>25</td>
<td>Richland County</td>
</tr>
</tbody>
</table>
Richland 101 for Kids is an event introducing kids to the various resources provided by County Government, with fun events including a mock election, a fire truck, and a “Go Green” fashion show, just to name a few. The Stormwater Division featured a quiz game to teach kids and parents about stormwater issues.

### Gill Creek Watershed Association

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gill Creek Watershed Association</td>
<td>Bus tour of the Gills Creek Watershed for college students in USC’s POLI 121 &quot;Green Politics&quot; class</td>
<td>March 23, 2009</td>
<td>20</td>
<td>University of South Carolina</td>
</tr>
</tbody>
</table>

During the Spring 2009 semester, Gill Creek Watershed Association partnered with USC to take students in the POLI 121 "Green Politics" class on a bus tour of the Gills Creek Watershed. The bus went to five different locations within the watershed. The tour covered a variety of topics including watershed basics, impervious surfaces, non-point source pollution, stormwater, major problems within the Gills Creek Watershed and possible solutions.

### Richland County

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County</td>
<td>Stormwater education tent at Richland County National Public Works Week Kids Day</td>
<td>Richland County Public Works, May 15, 2009</td>
<td>100</td>
<td>Department of Public Works Stormwater Divisions</td>
</tr>
</tbody>
</table>

Richland County’s celebration of National Public Works week included a kids day event where Richland County elementary schools were invited to an event-filled day with food, games, and information booths from all the divisions at Public Works. At the stormwater tent kids learned how much of the earth's surface is covered with water and how much of that water is actually consumed by humans, plants, and animals.

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County</td>
<td>Stormwater booth at Richland 101 for Kids</td>
<td>Dutch Square Mall, July 24, 2008</td>
<td>1000</td>
<td>Department of Public Works Stormwater Divisions</td>
</tr>
</tbody>
</table>

Richland 101 for Kids is an event introducing kids to the various resources provided by County Government, with fun events including a mock election, a fire truck, and a “Go Green” fashion show, just to name a few. The Stormwater Division featured a quiz game to teach kids and parents about stormwater issues.
The Richland Soil and Water Conservation District is charged by South Carolina Code of Laws with the responsibility of providing leadership in developing and implementing plans to meet conservation needs of the District and finding the resources to plan and implement the programs to address these needs. The lack of adequate conservation BMP’s on disturbed land allows erosion which creates sedimentation in our ditches, streams, ponds, and rivers thereby causing serious degradation of the quality of all our water resources.

- Hugh Caldwell, Richland Soil & Water Conservation District

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County Planning Department</td>
<td>Comprehensive Plan to be used by County Council in creating land use ordinances developed to include water quality policies and encourage the use of buffers</td>
<td>February 26, 2008</td>
<td>11</td>
<td>N/A</td>
</tr>
<tr>
<td>Gills Creek Watershed Association</td>
<td>Presentation on Gills Creek Watershed for Richland County Conservation Commission</td>
<td>Richland Co. Administration Building, April 18, 2009</td>
<td>15</td>
<td>N/A</td>
</tr>
<tr>
<td>Clemson University</td>
<td>Academic panel on minimum stream flows in South Carolina's rivers and streams. The panel produced a letter report to South Carolina's legislators.</td>
<td>December, 2008</td>
<td>22 panel participants</td>
<td>Center for Humans and Nature</td>
</tr>
</tbody>
</table>

In 2009, the Comprehensive Plan for land use in Richland County included water quality language for the first time. The plan also promotes the use of buffers along county waterways. The Comprehensive Plan is a policy document created for use by the Richland County Council in creating future land use ordinances in Richland County.
Richland County's Industrial Operators Conference was a half day conference put on by RC Stormwater Management for industrial facility managers, operators, and environmental health managers. The conference provided information on Richland County's industrial and high risk runoff program, best management practices and why they are important, state requirements for an Industrial General Permits. Richland County also held a number of internal training sessions for its employees (Appendix D).

Pervious concrete allows stormwater to penetrate the concrete and filter through the soil naturally where it is cleaned before entering subsoil water systems. This is opposite from non-pervious surfaces where water will run off into culverts, ditches and streams and therefore put pollutants into our watershed systems. Going forward, the consortium plans to utilize installations such as the one pictured here, pervious pavement at a shopping center on Killian Road, as learning workshops for contractors and engineers.
### Professionals: Contractors & Engineers

**Richland Countywide Stormwater Consortium**

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clemson</td>
<td>Conduct Certified Erosion and Prevention &amp; Sediment Control and Inspector Program (CEPSCI) and give examinations for certification</td>
<td>Richland County, 4 courses conducted during the year.</td>
<td>276</td>
<td>DHEC and DOT</td>
</tr>
</tbody>
</table>

#### Protecting South Carolina’s streams and lakes

*By Tom Lollis*

Construction contractors are learning to protect the state’s valuable water resources through Clemson Extension training programs. These programs teach best management practices to prevent erosion on construction sites and to keep sediment out of streams and lakes.

“If sediment is not contained, it can reduce water clarity, inhibit aquatic habitat and carry pollutants into surface waters,” said John Hayes, Clemson professor of agricultural and biological engineering.

One program, S.C. Clear Water Contractor, teaches construction industry and state agency personnel the practices needed to comply with federal and state regulations on construction-site runoff.

A second program began last fall at the request of the S.C. Department of Health and Environmental Control (DHEC). This program certifies inspectors to ensure that erosion prevention and sediment control practices are in effect on construction sites greater than one-acre, as required by federal regulations.

Clemson University is the only organization in the state providing the training needed for certification.

The inspector’s program reaches the most effective erosion and sediment control practices for various types of terrain. Instructors use digital video to teach inspectors how to review grading plans and use actual grading plans to teach best management practice details and how to conduct effective field inspections.

“The contractor must comply with various erosion and sediment control requirements,” said Tom Lollis, Clemson professor of agricultural and biological engineering. “A certified inspector ensures that the contractor is compliant with these requirements.”

#### Date | Location | Number Attended
---|---|---
August 6, 2008 | Columbia | 100
October 23, 2008 | Columbia | 59
March 4, 2009 | Columbia | 49
June 23, 2009 | Columbia | 68
Total: | | 276

In December 2006, the CEPSCI program received the highest Team Award given at Clemson University. A complete profile of the program and where to go for further information is included in Appendix A.
Richland County Public Works Stormwater Division began a project in the summer of 2008 with the goal of marking storm drains in every neighborhood in the county. The work was done by county interns from the Youth Works program. The county succeeded in marking 25% of the storm drains in 2008. They hope to have finished 75% by the end of summer 2009. In addition, 11 volunteers from the Arcadia Lakes Navy, a concerned citizens organization, marked the majority of the storm drains within the Town of Arcadia Lakes.

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland County, Arcadia Lakes Navy</td>
<td>Storm drain marking, accompanied by stormwater awareness door hanger.</td>
<td>Richland County, Arcadia Lakes Summer 2008</td>
<td>91300</td>
<td>N/A</td>
</tr>
<tr>
<td>Richland County</td>
<td>Presentation on storm drain marking for Woodlands subdivision Homeowners Association</td>
<td>Woodlands subdivision, April 14, 2009</td>
<td>22</td>
<td>N/A</td>
</tr>
</tbody>
</table>
The Master Gardener program, coordinated regionally through the efforts of Clemson University’s Environmental Horticulturalist Vicky Bertagnolli, is an award-winning program which focuses on holistic and environmentally-sustainable practices. Currently there is a Richland Master Gardeners Association, headed by Ryan Nevius, as well as a Midlands Master Gardener Association.

Rain Gardens have become one of the hot button topics for homeowners since they can be seen as a beautification project and at the same time reduce pollutant runoff coming from non-pervious surfaces. The new installation at the Children’s Garden at Clemson Sandhills REC will be an ongoing project with additions planned for Fall ’09 and Spring ’10.
<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland Soil &amp; Water Conservation District</td>
<td>Rain Barrels sale, and accompanying newsletter articles</td>
<td>Midlands, ongoing</td>
<td>100</td>
<td>N/A</td>
</tr>
<tr>
<td>SC State Museum</td>
<td>Build a Rain Barrel Workshop at Earth Day Festival</td>
<td>SC State Museum, March 28, 2009</td>
<td>6</td>
<td>N/A</td>
</tr>
</tbody>
</table>

“I did all the work myself, which was just simple assembly. . . . . The rain water will be used for some grape vines and a vegetable garden through a soaker hose.”

— Richland County citizen, who purchased a rain barrel from the Conservation District.

Participants constructed their own rain barrels from used food-grade plastic drums at a workshop at the State Museum.
### Conclusion

FY 08-09 Annual Report
Richland Countywide Stormwater Consortium

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When drinking water, remember its source.
— Chinese proverb

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<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Clear RCSC</td>
<td>The Richland Countywide Stormwater Consortium</td>
<td>3 business meetings</td>
<td>varied RCSC members per meeting</td>
<td>All MS4’s and Educational Partners</td>
</tr>
</tbody>
</table>

The emphasis of the consortium in year 1 was to build a unified organization and to give ownership while empowering its members. This organization was to be inclusive of MS4’s as well as appointed representatives along with agencies and other educational entities.

A listserv system was built on the Clemson mainframe to allow email communication among the municipalities and educational partners. With this tool members could share information and ask questions of the entire group with one email address. This has also allowed RCSC to multiply marketing efforts for educational programming by utilizing distribution list within the different members mail systems.

In the upcoming year, RCSC will continue to identify partners with an interest in water quality and stormwater education, in order to broaden the scope of our programs and expand our audience. Programs will be developed, and data from Year 1 will be used to evaluate the effectiveness of our efforts, and to ensure that RCSC’s education measures are comprehensive in terms of target audiences and target pollutants.
Conclusions for Year 1 (08-09)

<table>
<thead>
<tr>
<th>Lead Provider</th>
<th>Activity</th>
<th>Location and Date Delivered</th>
<th>Number of Participants</th>
<th>Other Providers Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Clear</td>
<td>Drafted Year 1 Education Plan of Work</td>
<td>January 2009</td>
<td>17</td>
<td>All RCSC members</td>
</tr>
<tr>
<td>Carolina Clear</td>
<td>Defined RCSC Mission and Goals</td>
<td>Spring 2009</td>
<td>15</td>
<td>All RCSC members</td>
</tr>
<tr>
<td>Carolina Clear</td>
<td>Designed RCSC logo</td>
<td>Spring 2009</td>
<td>15</td>
<td>All RCSC members</td>
</tr>
</tbody>
</table>

As we move forward into the new year RCSC anticipates an expanded media campaign to include commercials on local and cable television, widespread radio messages, and increased traffic on our Carolina Clear consortium website. Because RCSC’s parent organization Carolina Clear is statewide and a program of one of South Carolina’s primary research universities, RCSC enjoy increased leverage for advertising purposes and media coverage and resources for producing messages far beyond those of individual counties and municipalities.

The consortium also possesses the advantage of being able to model its programs after those of more established Carolina Clear stormwater education consortiums, such as the Costal Waccamaw, Ashley-Cooper, and Lexington Countywide Stormwater Consortiums. Building on their successes and learning from their trials, RCSC will in turn give guidance to newer consortiums such as the Florence-Darlington and Sumter Areawide consortiums.

RCSC remains committed to public education and outreach through helping citizens understand stormwater issues while involving them directly in efforts to reduce stormwater pollution within our watershed. Together the citizens, businesses, organizations, and governments within Richland County can achieve far more than could be accomplished individually, working towards the common goal of protecting water quality for the people and the environment.
Formed only a couple of years ago, the Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) Team has created and implemented a unique program where affected individuals are impacting nearly every construction site greater than one (1) acre throughout South Carolina. Given that developed land area in South Carolina has increased 750,000 acres over a 10-year period and shows an accelerating trend, it is imperative that knowledgeable personnel are assessing the environmental condition of land disturbance on a consistent basis. CEPSCI-certified individuals have the responsibility to ensure the protection of the State’s valuable water resources by taking information, techniques and practices obtained during the course and applying them in field situations.

CEPSCI also serves as a model for fostering new clientele yet following the long-standing traditions of Extension. Research on erosion prevention and sediment control conducted at Clemson University is routinely transferred to the design and construction industry by the most appropriate methods to convey technical information. Recognizing and addressing needs of the construction industry and the enormous economic impact of development in South Carolina was a significant driver of Team activities. The CEPSCI Team included contributing individuals who cut across the academic and public service sectors of the University.

The CEPSCI program has three primary objectives: 1) educate candidates on the proper installation, maintenance, and inspection of erosion prevention and sediment control measures at construction sites; 2) create an interactive forum where participants are informed of new regulatory requirements and their responsibilities related to full compliance; and 3) provide DHEC-approved training and programmatic infrastructure necessary for a robust environmental certification program.

In order to maintain their inspector certification, each individual must complete continuing education courses which will provide additional opportunities for training. This recertification process ensures a continuing relationship between research institutions and the growing construction industry.
Affected clientele were deeply involved in the development of all aspects of CEPSCI planning. Information on proposed curricula and course delivery was drawn from multiple public and private sector partners including the SC Department of Health and Environmental Control (DHEC), the SC Department of Transportation, the US Environmental Protection Agency, the SC Association of General Contractors, and the SCANA Corporation.

Significant regional and national interest has also been generated through program implementation. Summary presentations have been requested and given in ten (10) states throughout the Country. The CEPSCI course has also opened opportunities for instructors to be interviewed on statewide public radio and television as experts for a forum related to the proposed I-73 corridor construction project. Team members also routinely field inquiries from local and statewide press on a variety of stormwater issues.

Each CEPSCI event is evaluated by participants, and results provide Team members with valuable information used to refine the program. Over 96% of inspector candidates indicate information presented during the course was useful and that they learned something new from the material provided. Further, and perhaps most important, 72% of participants indicate they will begin using the techniques and practices presented to them within one (1) month, and 80% within three (3) months. While some open-ended written comments about the course and the instructors were humorous (“Offer beer and pizza”), others provided insight as to when the program information would be used (“In a New York minute”). Additional responses demonstrated how the program was received (“CEPSCI program is a great venue for governmental, developing, contracting and supply entities to come together and gain common knowledge for the successful completion of today’s construction projects”).

In closing, CEPSCI creates a distinctive opportunity for educated and trained personnel to have their footprint on virtually all significant construction sites in the state for the foreseeable future.

“Following several planning meetings as early as July 2004, it became apparent that the CEPSCI Team would be able to address our educational needs, due not only to their expertise in erosion mechanics and sediment transport, but also to the logistical infrastructure they brought to the table. Today over 900 SCDOT employees and contractors have participated in the CEPSCI program.”

Ray Vaughn
Storm Water Manager
SC Dept of Transportation
Appendix A - CEPSCI Information

October 12, 2006

Dr. Fran Wolak, CCO
Clemson Cooperative Extension Service
103 Barre Hall
Clemson University
Clemson, SC 29634

Dear Dr. Wolak,

It has come to my attention that the Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) program has been nominated for this year’s CU Extension Team Award. I can think of no group more deserving of this honor!

I had the pleasure of working with the CEPSCI team during the recent implementation of the new DHEC Storm Water regulations. During the negotiations with DHEC, we pushed hard to have the CEPSCI certification program included in the regulations to give our builder members other options. This turned out to be one of the best things we ever did. When DHEC finally got the green light to proceed with implementation, there was a mad scramble in the regulated community to get the CEPSCI certification. It was imperative that we get as many home builders certified as quickly as possible.

This is when the CEPSCI team really stepped up to the plate. Working closely with Cal Sawyer we were able to schedule a number of seminars across the state in short order. We worked with CEPSCI to advertise the seminars and the response was tremendous. Every time CEPSCI opened another seminar it was quickly sold out. The CEPSCI team even offered to hold seminars on the weekend! I attended one of the seminars and was impressed with the quality and hands-on nature of the course. It was clear to me that you really had to know what you were doing to get CEPSCI certification.

Occasionally in our professional lives, we have an opportunity to really step up to the plate and knock a homerun. In the summer of 2006 the CEPSCI team did just that. Their commitment, professionalism and teamwork provided an invaluable service to the home building industry, state government and the citizens of South Carolina. On behalf of the home builders of SC, I whole heartedly support the nomination of the CEPSCI team for the prestigious CU Extension Team Award. They truly are a team!

Sincerely Yours,

[Signature]

Julian Barton
Director of Governmental Affairs
Home Builders Association of SC
Appendix B - Memorandum of Understanding

Memorandum of Understanding
between
CLEMSON UNIVERSITY
and
Richland County

WHEREAS, Clemson University (hereinafter, CLEMSON) possesses in its Extension faculty and staff various levels of expertise concerning stormwater compliance requirements as promulgated by SC DHEC and USEPA, and

WHEREAS, Richland County is desirous of obtaining access to education and public awareness of stormwater; and

WHEREAS, Clemson University has developed an environmental program (Carolina Clear), portions of which apply to the impact of stormwater on natural resources;

THEREFORE, be it resolved that since one of the goals of the Carolina Clear program is to educate people about the impacts of stormwater and since this program provides educational opportunities to address a broad range of water quality issues including the impact of stormwater on natural resources, Clemson and Richland County will collaborate to address stormwater education. Carolina Clear is a comprehensive approach developed by Clemson University Cooperative Extension Service to inform and educate communities about, among other issues, water quality, water quantity and the cumulative effects of stormwater. Carolina Clear addresses the special significance of South Carolina’s water resources and the role these resources play in the state’s economy, environmental health, and overall quality of life.

In order to help Richland County satisfy the Public Education and Outreach Minimum Control Measure as required by the EPA Phase II Storm Water Program, the Clemson University Cooperative Extension Service (CUCES) proposes to utilize selected components of the Carolina Clear Program in order to

- Implement a public education program to distribute education materials within Richland County, or conduct equivalent outreach activities about the impacts of stormwater and the steps that can be taken to reduce storm water pollution; and

- Determine the appropriate public awareness campaign with Richland County. Some program implementation approaches, BMPs (i.e., the program actions/activities), and measurable goals are contained in the individual agreement and need to

- Form partnerships,
- Use education materials and strategies, and
- Reach diverse audiences.

In order to satisfy the Public Participation/Involvement Minimum Control Measure, the Clemson Cooperative Extension Service proposes to

- When asked and as appropriate, assist local entities with complying with applicable local public notice requirements,
- Provide program accountability measures which provide feedback and reporting data to include number of people contacted, publications produced and distributed, and other specifics as appropriate, and
- Other programs and measures as specified in the Contractual Agreement.

Because each agreement is unique to the requirements of the circumstances, Clemson and Richland County agree that the specific metrics of each contract shall be individually negotiated and delineated in the Contractual Agreement. Neither party has any responsibility for any performance obligations except as indicated in a subsequently negotiated Contractual Agreement.

This Memorandum of Understanding will commence upon the date of the signature of the last party to this contract and will run thereafter for a period of five (5) years from the date of the last signature. The parties may agree in writing to extend this agreement for an additional 5-year period, provided such agreement is executed no later than 30 days prior to the expiration of this contract. No amendments, changes or modifications will be effective until and unless reduced to writing and signed by the parties. Either party may cancel this agreement upon the giving of 30 days written notice.

John Kelly
Vice President

Clemson University PBA

6/24/08

Milburn Price
County Administrator

Richland County

6/11/08

Appendix B - Memorandum of Understanding
FY 08-09 Annual Report
Richland Countywide Stormwater Consortium
Drafted at the kick-off consortium meeting in January 2008 and finalized at the second meeting in March, the Education Plan is a valuable tool for visualizing a year’s worth of education efforts. As a living document, it is constantly updated. Displayed is the version created at the March meeting, with updated delivery dates, participation data, and assessment information. Goals that were not met in the first year will be carried over into the Year 2 Education Plan. The latest version is available for download at http://www.clemson.edu/public/carenclear/consortiums/richland_home/about.html. Appendix C1 shows the initial draft created at the first RCSC meeting in December, 2008. Appendix C2 shows the final version this draft evolved into, with complete data from the first year’s education activities. Appendix C3 shows the new education plan developed for the 2009-2010 reporting year.

Table 4. Education Plan of Work - Initial Plan Developed December 2008, Page 1

<table>
<thead>
<tr>
<th>DRAFT Stormwater Education Plan</th>
<th>Year 1 (2008-09) - Richland County, Arcadia Lakes and Forest Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Public</strong></td>
<td></td>
</tr>
<tr>
<td>Lead Service Provider</td>
<td>Activity–Program (Italics include participation elements)</td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>Rain Garden presentation at American Dream, Richland’s Homebuying and Green Living Conference, March 2009</td>
</tr>
<tr>
<td>Richland County</td>
<td>Raise awareness to the stormwater hotline - why, when, and who should be called for what reason.</td>
</tr>
<tr>
<td>Target Geography/ Land Use</td>
<td>Target Pollutant</td>
</tr>
<tr>
<td>Midlands</td>
<td>nutrients</td>
</tr>
<tr>
<td></td>
<td>nutrients, bacteria, sediment, debris, oil, hazardous chemicals</td>
</tr>
<tr>
<td>Participation by other Service Providers</td>
<td>Clemson Carolina Clear, DHEC</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Youth / K-12 / Teachers</strong></td>
<td></td>
</tr>
<tr>
<td>Conservation District</td>
<td>Conservation Station - develop a module on stormwater runoff and pollution prevention and deliver it at upcoming Conservation Station events.</td>
</tr>
<tr>
<td></td>
<td>Richland County</td>
</tr>
<tr>
<td></td>
<td>sediment, bacteria, nutrients</td>
</tr>
<tr>
<td></td>
<td>Clemson Carolina Clear</td>
</tr>
<tr>
<td><strong>Elected and Appointed Officials and High-Level Staff</strong></td>
<td></td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>General Stormwater Awareness presentations to Rotary Club</td>
</tr>
<tr>
<td></td>
<td>Richland County</td>
</tr>
<tr>
<td></td>
<td>all</td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>NEMO Watershed Awareness presentation</td>
</tr>
<tr>
<td></td>
<td>Richland County</td>
</tr>
<tr>
<td></td>
<td>all</td>
</tr>
<tr>
<td></td>
<td>SC Sea Grant, KMB</td>
</tr>
</tbody>
</table>
Table 4. Education Plan of Work - Initial Plan Developed December 2008, Page 2

<table>
<thead>
<tr>
<th>General Public</th>
<th>Lead Service Provider</th>
<th>Activity—Program (Italics include participation elements)</th>
<th>Target Geography/Land Use</th>
<th>Target Pollutant</th>
<th>Participation by other Service Providers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professionals: Contractors, Engineers, Developers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clemson University</td>
<td>Clear Water Contractors</td>
<td>Richland County</td>
<td>sediment, nutrients</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clemson University</td>
<td>CEPSCI (Certified Erosion Prevention and Sediment Control Inspector)</td>
<td>Richland County</td>
<td>sediment, nutrients</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Homeowners &amp; Homeowner Associations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richland County</td>
<td>Richland County Neighborhood Council - include articles in electronic newsletter to HOAs across the county</td>
<td>Richland County</td>
<td>sediment, nutrients, bacteria, debris</td>
<td></td>
<td>Clemson Carolina Clear</td>
</tr>
<tr>
<td>Arcadia Lakes</td>
<td>Stormwater Awareness billstuffer will be mailed out with tax bill</td>
<td>Arcadia Lakes</td>
<td>sediment, nutrients, bacteria, debris, hazardous chemicals</td>
<td></td>
<td>Clemson Carolina Clear</td>
</tr>
<tr>
<td>Keep the Midlands Beautiful</td>
<td>Storm drain marking, accompanied by stormwater awareness door hanger.</td>
<td>Richland County</td>
<td>sediment, nutrients, bacteria, debris</td>
<td></td>
<td>Clemson Carolina Clear</td>
</tr>
<tr>
<td>Richland County</td>
<td>Promote storm drain marking already completed by the county through newspapers, newsletters and local channels.</td>
<td>Richland County</td>
<td>sediment, nutrients, bacteria, debris</td>
<td></td>
<td>Clemson Carolina Clear</td>
</tr>
<tr>
<td>Commerical Citizens</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>Partnering for Water Quality presentation to the Chamber of Commerce - how businesses can get involved in water quality protection.</td>
<td>Richland County</td>
<td>sediment, nutrients, bacteria, debris, household hazardous waste, oil and grease</td>
<td></td>
<td>Clemson Cooperative Extension Service, Richland County</td>
</tr>
</tbody>
</table>
# Appendix C - Education Plan of Work

## Table 5. Education Plan of Work With Year 1 Data, Page 1

<table>
<thead>
<tr>
<th>Lead Service Provider</th>
<th>Activity/Program</th>
<th>Target Geography/ Land Use</th>
<th>Target Pollutant(s)</th>
<th>Location and Date Delivered</th>
<th>Number Impacted/ Reached</th>
<th>Assessment Type</th>
</tr>
</thead>
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<tr>
<td><strong>Clemson Carolina Clear</strong></td>
<td>Rain Garden presentation at American Dream, Richland's Home buying and Green Living Conference, March 2009</td>
<td>Midlands</td>
<td>x</td>
<td>Richland Northeast High School, 3/21/09</td>
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<td><strong>Richland County</strong></td>
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<td>x</td>
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<td><strong>Clemson Carolina Clear</strong></td>
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<td>x</td>
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<td><strong>Richland County</strong></td>
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<td>Rooftop Rhythms Festival</td>
<td>Forest Acres</td>
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<td>Forest Acres Mall, 4/16/09</td>
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Appendix C - Education Plan of Work

Table 5. Education Plan of Work With Year 1 Data, Page 2

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<thead>
<tr>
<th>Stormwater Education Plan</th>
<th>Year 1 (2008-09) - Richland County, Arcadia Lakes, and Forest Acres</th>
<th>Living Document (last revised: 7/24/09)</th>
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<td>Lead Service Provider</td>
<td>Activity/Program</td>
<td>Target Pollutant(s)</td>
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<td>Forest Acres</td>
</tr>
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<td>Richland County</td>
<td>Sparkleberry Country Fair</td>
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<td>Public presentation on the Gills Creek Watershed</td>
<td>Richland County</td>
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<td>Gills Creek Watershed Association</td>
<td>Community watershed clean-up</td>
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<td>Gills Creek Watershed Association</td>
<td>Public Meeting on Gills Creek Watershed Management Plan</td>
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<tr>
<td>Gills Creek Watershed Association</td>
<td>E-mail newsletters featuring stormwater articles</td>
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<td>Clemson Carolina Clear</td>
<td>Richland Countywide Stormwater Consortium Website</td>
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<td>Gills Creek Watershed Association</td>
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<thead>
<tr>
<th>Youth / K-12 / Teachers</th>
<th>Target Pollutant(s)</th>
<th>Location and Date Delivered</th>
<th>Number Impacted/Reached</th>
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Table 5. Education Plan of Work With Year 1 Data, Page 3

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<td>Comprehensive Plan to be used by County Council in creating land use ordinances</td>
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<td>Storm drain marking, accompanied by Stromwater</td>
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<td>Presentation on storm drain marking for Woodlands subdivision Homeowners</td>
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<td>Build a Rain Barrel Workshop at Earthday Festival</td>
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<td>Rain Barrel Sales with accompanying newsletter articles</td>
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Appendix C 2 - Education Plan of Work With Year 1 Data
FY 08-09 Annual Report
Richland Countywide Stormwater Consortium
### Table 6. Education Plan of Work, Year 2, Page 1

<table>
<thead>
<tr>
<th>Lead Service Provider</th>
<th>Activity - Program (italics include participation elements)</th>
<th>Target Geography/Land Use</th>
<th>General Stormwater Awareness</th>
<th>Target Pollutant(s)</th>
<th>Participation by other Service Providers</th>
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<tr>
<td>Richland County</td>
<td>Raise awareness to the Stormwater hotline - why, when, and who should be called for what reason.</td>
<td>Richland County</td>
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<td>Clemson Carolina Clear</td>
<td>Radio Advertisements</td>
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<td>Earth Day Project (Lawnmower Exchange)</td>
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<td>Adopt-A-Highway Program</td>
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<td>District newsletter featuring rain barrels.</td>
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<td>Richland County &amp; Clemson Carolina Clear</td>
<td>Public Access TV Commercial and Advertisement</td>
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<td>Recycle Day</td>
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<td>Solid Waste</td>
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<td>Forest Acres, Gills Creek Watershed Association</td>
<td>Rooftop Rhythms Festival</td>
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<td>Congaree National Park, Gills Creek Watershed Association</td>
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<td>Congaree National Park</td>
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<td>Forest Acres Rotary Club, Gills Creek Watershed Association</td>
<td>Forest Acres Festival</td>
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<td>Forest Acres, Richland County, Forest Acres Rotary Club</td>
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<td>Richland County</td>
<td>Sparkleberry Country Fair</td>
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Appendix C - Education Plan of Work

Table 6. Education Plan of Work, Year 2, Page 2

<table>
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<tr>
<th>Lead Service Provider</th>
<th>Activity–Program (Italics include participation elements)</th>
<th>Target Geography/ Land Use</th>
<th>General Stormwater Awareness</th>
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<td>Presentation for Gills Creek Annual Meeting</td>
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<td>Stormwater public workshops on leaf bagging and buffer ordinances</td>
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<td>Articles in the Free Times Newspaper</td>
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Youth / K-12 / Teachers

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<th>Participation by other Service Providers</th>
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<tr>
<td>Richland County</td>
<td>Richland 101 (Kids Day) Activities and information delivered to inform kids and their parents about Stormwater related issues.</td>
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<td>Conservation District</td>
<td>Conservation Station – develop a module on Stormwater runoff and pollution prevention and deliver it at upcoming Conservation Station events</td>
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Department of Public Works Divisions

Clemson Carolina Clear
### Table 6. Education Plan of Work, Year 2, Page 3

#### Adaptive Stormwater Education Plan

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<th>Participation by other Service Providers</th>
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<td>Utilization of existing learning stations featuring stormwater equipment</td>
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<td>Green Steps Projects with local schools</td>
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<td>Arcadia Lakes, Green Steps, Keep the Midlands Beautiful</td>
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<td>Clemson Carolina Clear</td>
<td>4H2O Pontoon Classroom day camps</td>
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#### Elected and Appointed Officials and High-Level Staff

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<th>Target Pollutant(s)</th>
<th>Participation by other Service Providers</th>
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<td>Presence at public discussions of stormwater regulations</td>
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## Table 6. Education Plan of Work, Year 2, Page 4

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<td>Carolina Ready Mix Concrete Association</td>
<td>Presentation for development firms on how to include pervious pavers when designing stormwater systems</td>
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<td>Presentation for the Development Roundtable</td>
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### Homeowners & Homeowner Associations

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<th>Target Pollutant(s)</th>
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### Table 6. Education Plan of Work, Year 2, Page 5

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<th>Lead Service Provider</th>
<th>Activity--Program (italics include participation elements)</th>
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<th>Nutrient Loading</th>
<th>Sediment</th>
<th>Pollutants resulting in Low Dissolved Oxygen</th>
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</tr>
<tr>
<td>Richland County</td>
<td>Richland County Neighborhood Council - include articles in electronic newsletter to HOAs across the county</td>
<td>Richland County</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Arcadia Lakes</td>
<td>Stormwater Awareness bill stuffer will be mailed out with tax bill</td>
<td>Arcadia Lakes</td>
<td>X</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Richland County</td>
<td>Yard Clippings Bagging Outreach</td>
<td>Richland County</td>
<td></td>
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</tr>
<tr>
<td>Richland County</td>
<td>Organic Gardening Yard of the Month Project</td>
<td>Richland County</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Richland County</td>
<td>Neighborhood Planning Conference</td>
<td>Richland County</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carolina Clear</td>
<td>Carolina Yards &amp; Neighborhoods Program</td>
<td>Richland County</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Master Gardener Association</td>
<td>Water Wise Garden recognition category in Yard of the Month program, through Master Gardener Association</td>
<td>Richland County</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Clemson Master Gardener Program</td>
</tr>
<tr>
<td>Gills Creek Watershed Association</td>
<td>Pet Waste Campaign targeting specific neighborhoods and businesses (vets, pet supply stores, grocery stores)</td>
<td>Richland County</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### Appendix C - Education Plan of Work

Table 6. Education Plan of Work, Year 2, Page 6

<table>
<thead>
<tr>
<th>Lead Service Provider</th>
<th>Activity or Program (italic include participation elements)</th>
<th>Target Geography/Land Use</th>
<th>Target Pollutant(s)</th>
<th>Participation by other Service Providers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Commercial Citizens</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>Partnering for Water Quality presentation to the Chamber of Commerce - how businesses can get involved in water quality protection.</td>
<td>Richland County</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>Business Recognition Program</td>
<td>Richland County</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>General Stormwater Awareness presentations to Rotary Club</td>
<td>Richland County</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Richland County</td>
<td>Pesticides, Herbicides, and Fertilizer (PHF) Inspections to bring awareness about proper use of these products and regulate storage of these products.</td>
<td>Richland County</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Clemson Carolina Clear</td>
<td>Brochure in Spanish for landscaping businesses and employees.</td>
<td>Richland County</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Richland County</td>
<td>Distribute brochures at the Business License Bureau</td>
<td>Richland County</td>
<td>x</td>
<td>Richland County</td>
</tr>
</tbody>
</table>

**ADAPTIVE Stormwater Education Plan**

Year 2 (2009-10) - Richland County, Arcadia Lakes and Forest Acres

Living Document (last revised: 8/24/09)
## Appendix D - Richland County Internal Trainings

### Workshop Title: BMP Training

**Date:** 9/17/2008  
**Type of Training:** Best Management Practices  
**Hosted By:** Stormwater Division

**Address:**  
Richland County Adult Activity Center  
7494 Parklane Road  
Columbia, SC 29223

**Description:**  
Instructor: Mr. Raymond Pittman from Thomas and Hutton Engineering Co.  
(912) 234-5300  
Held from 9:30 am to 4 pm

**On-site Training:**  
Hood Construction  
Blood Diagnostic Construction site  
Contact: Mr. Vince Hood

**Target Division or Department:** Roads and Drainage, Engineering, & Stormwater Management  
**Materials Used During Training:** BMP Manuals

### Staff In Attendance

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP Training Class</td>
<td>Public Works</td>
<td>4</td>
</tr>
</tbody>
</table>

### Workshop Title: Public Works Project Management Boot Camp

**Date:** 9/17/2008  
**Type of Training:** Conference  
**Hosted By:** PW

**Address:**  
ATLANTA, GA

**Description:**  
File Found: Z:\travel\Travel and Training

**Description of Training:** Gain a better understanding of tested project management methods and practical experience in proven techniques.

**Justification/Benefit:** To gain better insight in various areas such as effective ways of dealing with elected officials, how to select engineering and architectural firms, lean the best ways to schedule and budget projects, negotiate favorable contracts, tools in getting projects closed out and accepted, manage design firms and construction contractors, manage quality and risks, and lends the methods used by the best private-sector firms in managing projects.

### Staff In Attendance

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Date: 10/1/2008</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>Workshop Title: 2009 SESWA Annual Conference</td>
</tr>
<tr>
<td>Hosted By: SESWA</td>
</tr>
<tr>
<td>Description: File found: Z:\travel\Travel and Training\SESWA Conference in Charleston</td>
</tr>
<tr>
<td>Justification/Benefit: To gain better insight and learn the newest and most innovative best management practices and TMDLs, also learn how to effectively establish a Stormwater utility and networking.</td>
</tr>
</tbody>
</table>

Staff In Attendance

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Date: 10/6/2008</th>
<th>Employee Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop Title: Wetland Delineation Classroom and Field Training</td>
<td>Type of Training: Not Applicable</td>
</tr>
<tr>
<td>Hosted By: Wetland Delineation Classroom and Field Training</td>
<td>Address: Pineville, NC</td>
</tr>
<tr>
<td>Description: File found: Z:\travel\Travel and Training\Wetland Delineation training</td>
<td>Description of Training: To study wetland delineation procedures used and approved by the U.S. Army Corps of Engineers and other regulatory agencies through a combination of inside lecture/class discussion and an equal amount of field demonstrations and repetitions.</td>
</tr>
<tr>
<td>Justification/Benefit: To gain a better understanding of a wide range of wetland delineation topics including soil hydro geochemistry, soil colors, soil taxonomy and a lot more topics. Attacked this form.</td>
<td></td>
</tr>
</tbody>
</table>

Staff In Attendance

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Hours</th>
</tr>
</thead>
</table>
## Employee Training

**Workshop Title:** Southeast Stormwater Institute  
**Type of Training:** Conference  
**Hosted By:** Southeast Stormwater Institute

| Date: | 10/13/2008 |
| Name | Department | Hours |
| Savannah, GA | |

**Description:**  
File found:Z:\travel\Travel and Training\Southeast stormwater Institute.conf  
Description of Training: Intensive, interactive three-day learning experience specifically designed to help public and private sector stormwater professionals. Develop or improve municipal stormwater programs, strengthen stormwater design, construction, and maintenance skills; and integrate volume reduction and green infrastructure credits.  
Justification/Benefit: Richland County is going to be home to the Stormwater Institute in 2009, and we are attending to gain more insight as to how to plan for this event and host it with out any delays and or problems to make sure that as sponsors, our event is a success in collaboration with the Center for Watershed Protection.

## Employee Training

**Workshop Title:** SWPPP's Training  
**Type of Training:** Training  
**Hosted By:** Stormwater Management Division

| Date: | 12/1/2008 |
| Name | Department | Hours |
| Columbia, SC | | |

**Description:** Date is not complete (December 2008)
### Appendix D - Richland County Internal Trainings

#### Employee Training

<table>
<thead>
<tr>
<th>Date: 12/5/2008</th>
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</thead>
<tbody>
<tr>
<td><strong>Workshop Title:</strong> Water rights and other legal aspects facing surveyors.</td>
</tr>
<tr>
<td><strong>Type of Training:</strong> Training</td>
</tr>
<tr>
<td><strong>Hosted By:</strong> Water rights and other legal aspects facing surveyors.</td>
</tr>
</tbody>
</table>

**Address:**
Charlotte, NC

**Description:** File found: Z:\travel\Travel and Training\Water rights and other legal aspects

**Attendant:** Jim Poison

**Description of Training:** Seminar will cover Water boundary issues, Death transfers, Recordings, Freehold estates, and liens.

**Justification/Benefit:** As a registered land surveyor responsible for establishing or retracting boundary lines that follow water lines, knowledge of water rights and legal determinations are essential. This knowledge will carry over to county issues as water right and boundaries are becoming a bigger issue in Public Works.

<table>
<thead>
<tr>
<th>Staff In Attendance</th>
<th>Department</th>
<th>Hours</th>
</tr>
</thead>
</table>

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#### Employee Training

<table>
<thead>
<tr>
<th>Date: 4/8/2009</th>
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<tbody>
<tr>
<td><strong>Workshop Title:</strong> Industrial High Risk Conference</td>
</tr>
<tr>
<td><strong>Type of Training:</strong> Conference</td>
</tr>
<tr>
<td><strong>Hosted By:</strong> Richland County Stormwater Management Division</td>
</tr>
</tbody>
</table>

**Address:**
400 Powell Rd
Columbia, SC 29203

**Description:** Designed to educate industries on current stormwater regulations and the processes Richland County follow.

<table>
<thead>
<tr>
<th>Staff In Attendance</th>
<th>Department</th>
<th>Hours</th>
</tr>
</thead>
</table>