Community Based Restoration Initiatives



A USDA CSREES
National Integrated
Water Quality Program
Project

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Situation

- Rural communities in Alabama are rapidly undergoing land use changes associated with urban and suburban growth.
- Wish to maintain 'Quality of Life' ... however there is also
 - Lack of knowledge
 - Lack of funding
 - Fear of the unknown

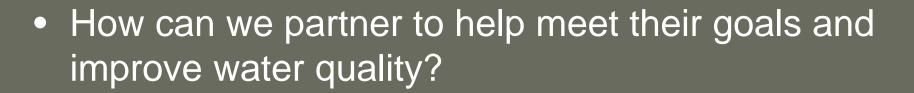


Our plan ...

 Go to communities at the urban-rural interface and LISTEN

What are their concerns?

What are their priorities?





Work with local partners to identify community interests and educational needs



Implement projects, evaluate success, & document lessons learned to share with other communities



Coordinate Watershed Restoration workshops to address problems (or perceived problems)



AU Landscape Architecture Environmental Studio students prepare draft designs and plans



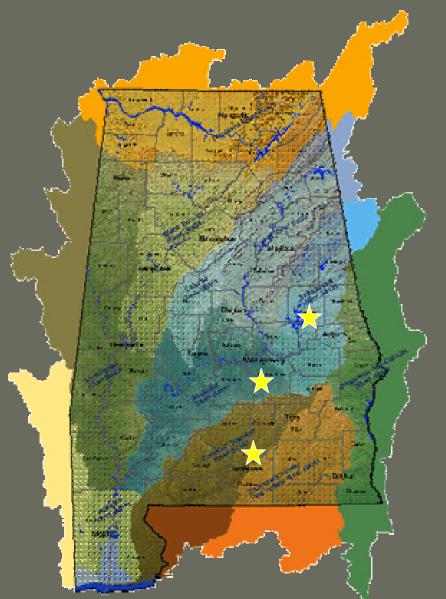
Identify potential projects that will improve local water quality and serve to educate stakeholders

Working with Alabama Communities

Spotlight communities at the urban-rural interface

- City of Alexander City
- Town of Pike Road

City of Brewton



Alabama Cooperative Extension System

- Information on watershed planning & management techniques
- Make available workshops, seminars, web sites and other educational programs requested by communities



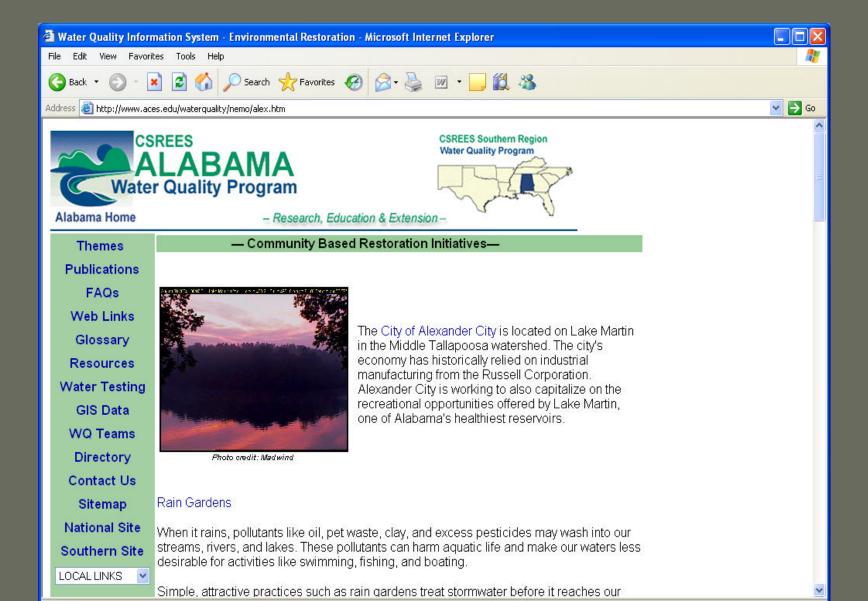


Watershed Restoration Workshops

- Stormwater BMP Academy (2)
- Introduction to Stream Restoration (2)
- Watershed Academy (1)



On-line Resources





Nonpoint source pollution, or polluted stormwater runoff, is the major

cause of water quality problems in Alabama's streams, rivers, and bays

🦊 start

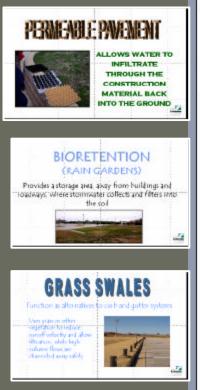
Watershed management resources, demonstration projects, and local contacts that may help communities and watershed groups

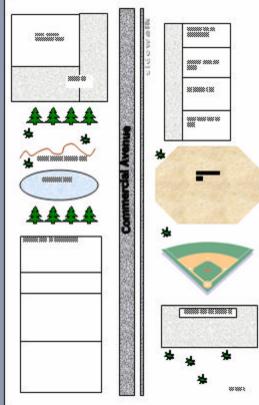


LID Play

Interactive land use & planning activity







AU Landscape Architecture

- Incorporate communities into their Environmental Studio
- Students lead Community Charrettes
- Assess existing conditions & listen to community concerns
- Prepare draft plans to address water quality issues 'BluePrints'













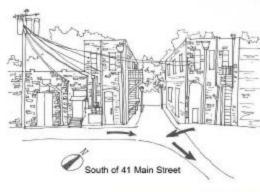






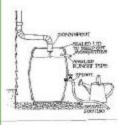
Rain barrels are containers or systems which collect and store water from rooftops for later use, helping stormwater drainage, which is frequenting channeled into nearby streams and rivers carrying pollutants and other contaminants into neighboring ecosystems.

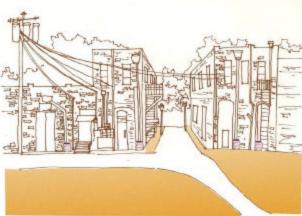
Saving rainwater by rain barrels is also an ancient practice, rainwater can be used for watering landscape and other use in the house, as well.











Permeable pavement offers some definite diventages over traditional paving. A significant contribution is the ability to reduce effective impervious area, which has a direct connection with downstream drainage systems. When heavy rains happen, permeable pavement area will work magnificently in help storm water drainage.





Implementation

Assisting with designs and outreach

Rain Garden example: City of Alexander City, Middle Tallapoosa Clean Water Partnership, Tallapoosa County Extension System, Lake Watch of Lake Martin, Boys and Girls Club, and AU Landscape Architecture Department





Rain Gardens

- Alexander City 3 highly visible sites
 - Radney Middle School
 - Benjamin Russell High School
 - Sport Plex





Benjamin Russell High School



Junior Master Gardeners



Total Costs

Items	Amount
Pipe (PVC and Slotted drain tile with sock)	\$1,140
#10 screenings (sand for soil amendments)	\$310
Organic soil amendment and Hardwood mulch	\$1,470
Mulch Hay and Bahia Grass seed	\$47.50
Native Plants	\$585.70
City Crew to help	Priceless
TOTAL	\$3,553.50

Extending the Project

- BMP tours
- Presentations to City Councils, Alabama NPS Conference, University classes, Grocery Store line, just about anywhere we get invited!



Lessons Learned

- Keep plants watered
- Follow up maintenance after big rains



Lessons Learned

- Community Education
 - Newspaper articles
 - Tours
 - Incorporated in local school programs



Next Steps ...

Spring Semester 2005
 Town of Pike Road

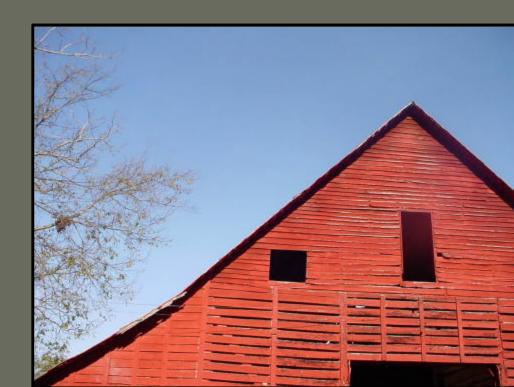
Fall Semester 2005
 City of Brewton



 AU Landscape Architecture students get to experience real world problems and suggest innovative solutions



 Rural communities in Alabama facing new problems associated with land use changes



 Local decision makers – they look good for partnering with students to improve their community's Quality of Life.



Local Water Quality!

"Start small with do-able projects to build momentum, then tackle the giants."

 John Glasier, Lake Watch of Lake Martin



